
2020

**PART 4: UWMP AGENCY
SUPPORTING INFORMATION**

UPPER SANTA ANA RIVER WATERSHED

**INTEGRATED REGIONAL URBAN
WATER MANAGEMENT PLAN**

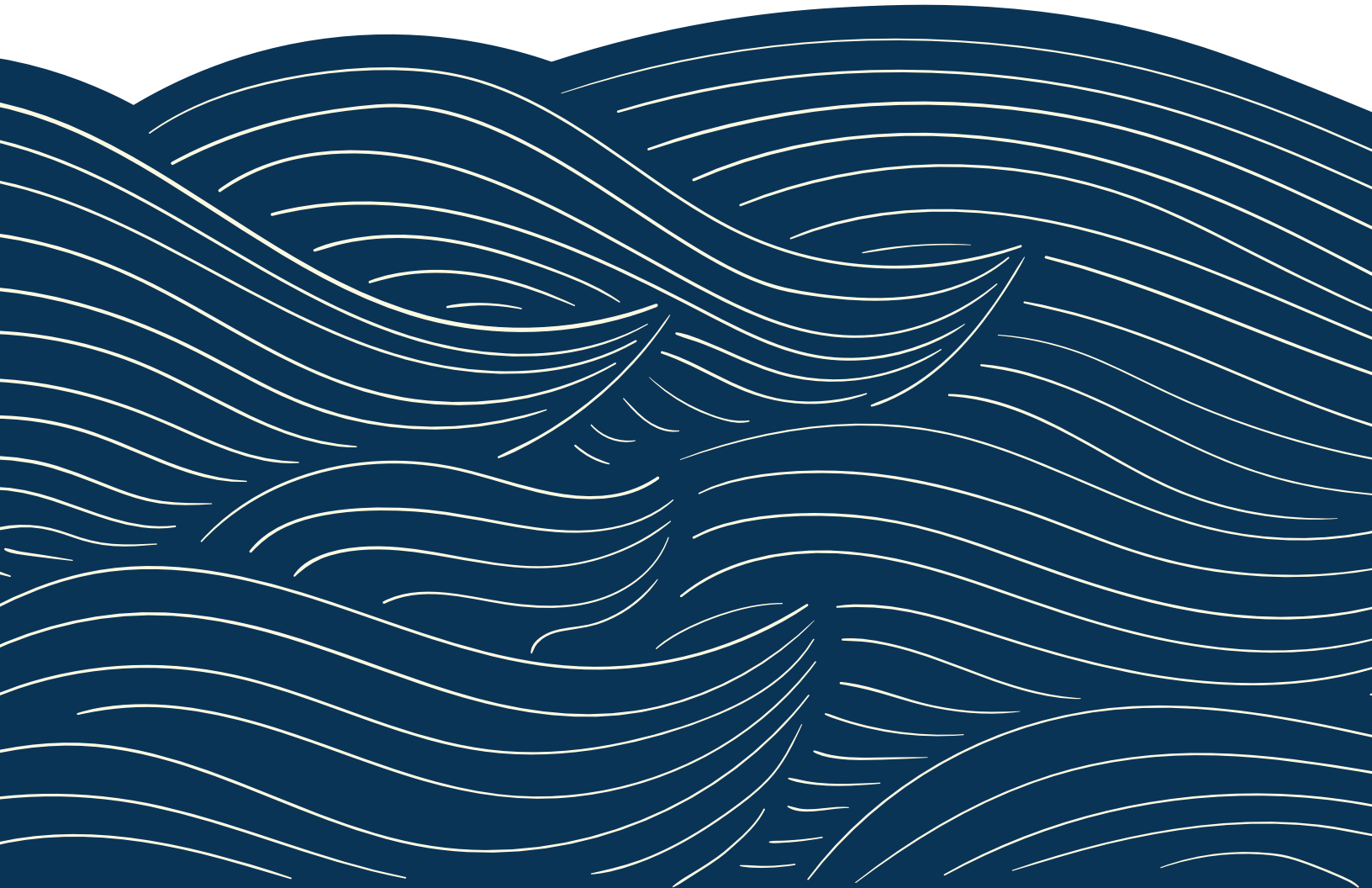


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2020 IRUWMP Part 4 San Bernardino Valley Municipal Water District Appendix A



A-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 1
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	Executive Summary
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	Part 2 Chapter 1
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	Part 1 Chapter 1
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	Part 4 Appendix A-2
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	Part 1 Chapter 5
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	Part 1 Chapter 1
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 1 Section 1.1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 1 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 1 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 1 Chapter 2 Section 4
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 1 Section 1.3
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	N/A
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	Part 1 Chapter 5 Part 2 Chapter 1 Section 1.3
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	Part 1 Chapter 4
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	N/A
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	N/A
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 1 Chapter 5
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	N/A

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	N/A
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	Part 2 Chapter 1 Section 1.7
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	N/A
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	N/A
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	N/A
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	Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 1 Chapter 5
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	Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 1 Chapter 3
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 1 Chapter 3
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	Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 1 Chapter 3
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	Part 1 Chapter 3
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	N/A
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	N/A
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	Part 1 Chapter 4
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	Part 1 Chapter 3 Part 2 Chapter 1 Section 1.2
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)	Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 1 Chapter 3
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	N/A
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	Part 1 Chapter 3 Part 1 Chapter 7
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	Part 2 Chapter 1 Section 1.2 (not available)
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	Water Supply Reliability Assessment	Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 1 Section 1.4
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	Part 2 Chapter 1 Section 1.5
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	Part 2 Chapter 1 Section 1.5
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	Part 1 Chapter 5
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	Part 1 Chapter 5
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	Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix A-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix A-9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix A-9
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix A-9
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix A-9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix A-9
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix A-9
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	Part 4 Appendix A-9
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix A-9
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	N/A
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	N/A
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	Part 4 Appendix A-9
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	N/A

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	N/A
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	N/A
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	Part 4 Appendix A-2
Section 8.14	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	Part 4 Appendix A-2
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
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	N/A
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	Part 4 Appendix A-2
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	Plan Adoption, Submittal, and Implementation	Part 4 Appendix A-2

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix A-2
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	Part 4 Appendix A-2

A-2: Public Outreach



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

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

June 1, 2021

Delivered via Email

Subject: Notice of Public Hearings for the 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California. The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations.

This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit their respective portions of the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which includes the WSCPs for each of the Participating UWMP Agencies, is available for review at www.IRUWMP2020.com and on the websites of each Participating UWMP Agency.

Each Participating UWMP Agency will hold an individual public hearing on their respective portions of the 2020 IRUWMP and their WSCP, in advance of their adoption. The dates, times and locations of the public hearings are shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating UWMP Agency	Agency Website	Public Hearing Date and Time	Public Hearing Location
City of Colton	www.ci.colton.ca.us	June 15, 2021 at 6 pm	Virtual (see website for access information)
City of Loma Linda	www.lomalinda-ca.gov	June 29, 2021 at 7 pm	25541 Barton Road Loma Linda, California
City of Redlands	www.cityofredlands.org	June 15, 2021 at 6 pm	City Council Chambers 35 Cajon Street Redlands, California
City of Rialto	www.rialto.ca.gov	June 22, 2021 at 6:30 pm	150 S. Palm Ave Rialto, California and virtual (see website for access information)
City of San Bernardino Municipal Water Department	www.sbmwd.org	June 22, 2021 at 9:30 am	Virtual (see website for access information)
East Valley Water District	www.eastvalley.org	June 23, 2021 at 5:30 pm	Virtual (see website for access information)
Riverside Highland Water Company	www.rhwco.com	June 24, 2021 at 9 am	Virtual (see website for access information)
San Bernardino Valley Municipal Water District	www.sbvmd.com	June 15, 2021 at 2 pm	Virtual (see website for access information)
South Mesa Water Company	southmesawater.com	June 18, 2021 at 9am	391 W. Avenue L Calimesa, California
West Valley Water District	www.wvwd.org	June 17, 2021 at 7 pm	Virtual (see website for access information)
Yucaipa Valley Water District	www.yvwd.dst.ca.us	June 22, 2021 at 4 pm	Virtual (see website for access information)

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

Agency	Prefix	First Name	Last Name	Title	E-mail address
BBCCSO		Mary	Reeves	General Manager	mreeves@bbccsd.org
BBCCSO		Jerry	Griffith		jgriffith@bbccsd.org
BBLDWP		Sierra	Orr		sorr@bbldwp.com
BBLDWP		Reggie	Lamson	General Manager	RLamson@bbldwp.com
Bear Valley Mutual Water Company	Mr.	Bob	Martin	General Manager	remartinpe@gmail.com
Beaumont-Cherry Valley Water District	Mr.	Dan	Jaggers	General Manager	dan.jaggers@bcvwd.org
Big Bear Area Regional Wastewater Agency		David	Lawrence	General Manager	dlawrence@bbarwa.org
Big Bear Municipal Water District		Mike	Stephenson	General Manager	mstephenson@bbmwd.net
Cal. State San Bernardino/Water Resources Institute	Ms.	Suzie	Earp	Interim Director	earps@csusb.edu
California Regional Water Quality Control Board, Santa Ana Region	Ms.	Hope	Smythe	Executive Officer	Hope.Smythe@waterboards.ca.gov
California State Water Resources Control Board, Division of Drinking Water	Mr.	Sean	McCarthy	Chief	Sean.McCarthy@waterboards.ca.gov
City of Banning	Mr.	Art	Vela	Public Works Director	avela@ci.banning.ca.us
City of Beaumont	Ms.	Elizabeth	Gibbs	City Manager	egibbs@beaumontcares.com
City of Big Bear Lake	Ms.	Susan	O'Strander	Director of Planning & Inspections	sostrander@citybigbearlake.com
City of Calimesa	Ms.	Bonnie	Johnson	City Manager	bjohnson@cityofcalimesa.net
City of Colton	Mr.	Mike	Cory	Water Utility Manager	mcory@ci.colton.ca.us
City of Colton	Mr.	Mark	Tomich	Development Services Director	mtomich@ci.colton.ca.us
City of Colton		Jessica	Sutorus		jsutorus@ci.colton.ca.us
City of Colton		Robert	DeLoach		rdeLoach@coltonca.gov
City of Corona	Ms.	Joanne	Coletta	Community Development Director	Joanne.Coletta@ci.corona.ca.us
City of Eastvale	Mr.	Gustavo	Gonzalez	Planning Manager	ggonzalez@eastvaleca.gov
City of Fontana	Mr.	Orlando	Hernandez	Planning Manager	ohernandez@fontana.org
City of Grand Terrace	Mr.	Craig	Bradshaw	Public Works Director	cbradshaw@grandterrace-ca.gov
City of Highland	Mr.	Lawrence	Mainez	Community Development Director	lmainez@cityofhighland.org
City of Jurupa Valley	Mr.	Gary	Thompson	City Manager	gthompson@jurupavalley.org
City of Jurupa Valley	Mr.	Thomas	Merrell	Planning Director	tmerrell@jurupavalley.org
City of Lake Elsinore	Mr.	Grant	Taylor	Community Development Director	gtaylor@lake-elsinore.org
City of Loma Linda	Mr.	Russ	Handy		rhandy@lomalinda-ca.gov
City of Loma Linda	Mr.	Konrad	Bolowich	Assistant City Manager	kbolowich@lomalinda-ca.gov
City of Loma Linda	Mr.	T. Jarb	Thaipejr	City Manager	jthaipejr@lomalinda-ca.gov
City of Loma Linda		Gabriel	Orozco		gorozco@lomalinda-ca.gov
City of Loma Linda		Kirk	Mayo		kmayo@lomalinda-ca.gov
City of Loma Linda		Dennis	Bolt		dbolt@lomalinda-ca.gov
City of Murrieta	Mr.	Jarrett	Ramaiya	City Planner	jramaiya@MurrietaCA.gov

Agency	Prefix	First Name	Last Name	Title	E-mail address
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City of Redlands	Mr.	John	Harris	Municipal Utilities and Engineering Director	jharris@cityofredlands.org
City of Redlands	Mr.	Brian	Foote	City Planner	bfoote@cityofredlands.org
City of Redlands	Ms.	Cecilia	Griego	Water Resource Specialist	cgriego@cityofredlands.org
City of Redlands		Ross	Wittman		rwittman@cityofredlands.org
City of Redlands		Kevin	Watson		kwatson@cityofredlands.org
City of Redlands		Lauren	Miracle		lmiracle@cityofredlands.org
City of Rialto	Mr.	Tom	Crowley	Utilities Manager	tjcrowley@rialtoca.gov
City of Rialto	Ms.	Karen	Peterson	Acting Community Development Director	kpeterson@rialtoca.gov
City of Rialto		Susanne	Wilcox		swilcox@rialtoca.gov
City of Riverside	Mr.	David	Welch	Community and Economic Development Director	cddInfo@riversideca.gov
City of San Bernardino	Mr.	Oliver	Mujica	Planning Division Manager	Mujica_Ol@sbcity.org
City of San Bernardino	Mr.	Michael	Huntley	Community Development Director	Persico_Ma@sbcity.org
City of Temecula	Mr.	Luke	Watson	Director of Community Development	Luke.Watson@cityoftemecula.org
City of Yucaipa	Mr.	Ray	Casey	City Manager	rcasey@yucaipa.org
County of Riverside	Mr.	Steve	Weiss	Planning Director	sweiss@rctlma.org
County of San Bernardino	Mr.	David	Doublet	Director of Public Works	ddoublet@dpw.sbcounty.gov
County of San Bernardino		Terri	Rahhal	Director, Land Use Services Department	Terri.Rahhal@lus.sbcounty.gov
County of San Bernardino	Mr.	Kevin	Blakeslee	Chief Public Works Engineer	kblakeslee@dpw.sbcounty.gov
Crafton Hills College	Mr.	Kevin	Horan	President	khoran@sbccd.cc.ca.us
East Valley Water District	Mr.	John	Mura	General Manager	jmura@eastvalley.org
East Valley Water District		Jeff	Noelte		jnoelte@eastvalley.org
East Valley Water District		Jason	Wolf		jwolf@eastvalley.org
East Valley Water District		Nathan	Carlson		ncarlson@eastvalley.org
Elsinore Valley Municipal Water District	Mr.	Greg	Thomas	General Manager	gthomas@evmwd.net
Elsinore Valley Municipal Water District		Jesus	Gastelum		jgastelum@evmwd.net
Fontana Water Company	Mr.	Josh	Swift	General Manager	jmswift@fontanawater.com
Fontana Water Company		Cris	Fealy		cifealy@fontanawater.com
Inland Empire Resources Conservation District	Ms.	Mandy	Parkes	District Manager	info@iercd.org
Jurupa Community Services District	Mr.	Chris	Berch	General Manager	cberch@JCS.D.US
Land Engineering (South Mesa Water Company)		Dan	Haskins		dan@lecincorporated.com
Metropolitan Water District of Southern California	Mr.	Edgar	Fandialan	Water Resources Management Group	efandialan@mwdh2o.com

Agency	Prefix	First Name	Last Name	Title	E-mail address
Muscoy Mutual Water Company	Mr.	Rudy	Garcia	Supervisor	rgarcia.mmwc@verizon.net
Muscoy Mutual Water Company	Ms.	Kathy	Halsey	General Manager	kathyhalseymuscoywater@verizon.net
Rialto Water Services, LLC	Mr.	Todd	Brown	General Manager	tbrown@t-rockcap.com
Riverside Highland Water Co.		Jennifer	Gimpel		jjgimpel@rhwco.com
Riverside Highland Water Company	Mr.	Don	Hough	General Manager	dhough@rhwco.com
Riverside Local Agency Formation Commission (LAFCO)	Mr.	Gary	Thompson	Executive Officer	gthompson@lafco.org
Riverside Public Utilities	Mr.	Todd	Corbin	General Manager	tcorbin@riversideca.gov
Riverside Public Utilities	Mr.	Todd	Jorgenson	Assistant General Manager - Water	tjorgenson@riversideca.gov
Riverside Public Utilities		Leo	Ferrando		LFerrando@riversideca.gov
Riverside Public Utilities		Michael	Plinski		MPlinski@riversideca.gov
Riverside Public Utilities		Greg	Herzog		GHerzog@riversideca.gov
Riverside Public Utilities		Farid	Boushaki		FBoushaki@riversideca.gov
Rubidoux Community Services District	Mr.	Jeff	Sims	General Manager	jsims@rcsd.org
San Bernardino County Flood Control District		Michael	Fam		mfam@dpw.sbcounty.gov
San Bernardino County Flood Control District		Alan	Frost		Alan.Frost@dpw.sbcounty.gov
San Bernardino County Local Agency Fomation Commission (LAFCO)	Mr.	Samuel	Martinez	Executive Officer	smartinez@lafco.sbcounty.gov
San Bernardino Municipal Water Department	Mr.	Miguel	Guerrero	General Manager	Miguel.Guerrero@sbmwd.org
San Bernardino Municipal Water Department		Steve	R Miller		Steve.Miller@sbmwd.org
San Bernardino Municipal Water Department		Devin	Arciniega		devin.arciniega@sbmwd.org
San Bernardino Municipal Water Department		Ted	Brunson		Ted.Brunson@sbmwd.org
San Bernardino Municipal Water Department		Francisco	Lopez-Jimenez		francisco.jimenez@sbmwd.org
San Bernardino Municipal Water Department		Jonathon	Schoenen		jonathon.schoenen@sbmwd.org
San Bernardino Municipal Water Department		Warren	Huang		warren.huang@sbmwd.org
San Bernardino Valley Municipal Water District	Mr.	Adekunle	Ojo	Water Resource Manager	AdekunleO@sbvmwd.com
San Bernardino Valley Municipal Water District		Matt	Howard		matth@sbvmwd.com
San Bernardino Valley Municipal Water District		Bob	Tincher		bobt@sbvmwd.com
San Bernardino Valley Water Conservation District	Mr.	Daniel	Cozad	General Manager	DCozad@sbvwcd.org
San Bernardino Valley Water Conservation District		Katelyn	Scholte		KScholte@sbvwcd.org
San Gorgonio Pass Water Agency	Mr.	Lance	Eckhart	General Manager	leckhart@sgpwa.com
San Gorgonio Pass Water Agency		Cheryle	Stiff		cstiff@sgpwa.com
Santa Ana Watershed Project Authority	Mr.	Jeff	Mosher	General Manager	jmosher@sawpa.org
South Mesa Water Company	Mr.	David	Armstrong	General Manager	darmstrong@southmesawater.com
Terrace Water Company	Mr.	Toby	Ritarita	General Manager	tobiterracewater@gmail.com

Agency	Prefix	First Name	Last Name	Title	E-mail address
United States Forest Service		Jody	Noiron	Forest Supervisor, San Bernardino National Forest	jody.noiron@usda.gov
United States Forest Service	Ms	Ellen	Shaw	Forest Supervisor, San Bernardino National Forest	ellen.shaw@usda.gov
West Valley Water District	Mr.	Shamindra	Manbahal	Acting General Manager	smanbahal@wvwd.org
West Valley Water District		Linda	Jadeski		ljadeski@wvwd.org
West Valley Water District		Daniel	Guerra		dguerra@wvwd.org
Western Heights Mutual Water Company	Mr.	Mark	Iverson	General Manager	m.iverson@westernheightswater.org
Western Municipal Water District	Mr.	Ryan	Shaw	Director of Water Resources	rshaw@wmwd.com
WMWD		Jason	Pivovaroff		jpivovaroff@wmwd.com
WMWD		Melissa	Matlock		mmatlock@wmwd.com
Yucaipa Valley Water District	Mr.	Joseph	Zoba	General Manager	jzoba@yvwd.dst.ca.us
Yucaipa Valley Water District		Jennifer	Ares		jares@yvwd.us
Yucaipa Valley Water District		Madeline	Blua		mblua@yvwd.us
Yucaipa Valley Water District		Ashley	Gibson		agibson@yvwd.us
Yucaipa Valley Water District		Mike	Kostelecky		mkostelecky@yvwd.us
Yucaipa-Calimesa Joint Unified School District	Ms.	Cali	Binks	Superintendent	cali_binks@ycjUSD.us
San Manuel Band of Mission Indians		Alexander	Sephton		alexander.sephton@sanmanuel-nsn.gov
San Manuel Band of Mission Indians		Peter	Mateo		peter.mateo@sanmanuel-nsn.gov

Inland Valley Daily Bulletin-SB

INLAND VALLEY DAILY BULLETIN

Publication Name:

Inland Valley Daily Bulletin-SB

Publication URL:

www.dailybulletin.com

Publication City and State:

Ontario, CA

Publication County:

San Bernardino

Notice Popular Keyword Category:

Notice Keywords:

urban water management plan

Notice Authentication Number:

202106302326134420381

2924553896

Notice URL:

[Back](#)

Notice Publish Date:

Tuesday, June 08, 2021

Notice Content

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Publication Name:
Yucaipa News Mirror

Publication URL:
www.newsmirror.net

Publication City and State:
Yucaipa, CA

Publication County:
San Bernardino

Notice Popular Keyword Category:

Notice Keywords:
urban water management plan

Notice Authentication Number:
202106302329362338593
2924553896

Notice URL:

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Notice Publish Date:
Friday, June 04, 2021

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Inland Valley Daily Bulletin-SB

INLAND VALLEY DAILY BULLETIN

Publication Name:

Inland Valley Daily Bulletin-SB

Publication URL:

www.dailybulletin.com

Publication City and State:

Ontario, CA

Publication County:

San Bernardino

Notice Popular Keyword Category:

Notice Keywords:

urban water management plan

Notice Authentication Number:

202106302331078222571

2924553896

Notice URL:

[Back](#)

Notice Publish Date:

Tuesday, June 01, 2021

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A-3: Resolutions

RESOLUTION NO. 1119**A RESOLUTION OF THE BOARD OF DIRECTORS OF SAN
BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED
INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN**

WHEREAS, San Bernardino Valley Municipal Water District (“Valley District”) and other water managers in the Upper Santa Ana River Watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and,

WHEREAS, State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and,

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region’s first IRWM Plan (IRWMP) to collaborate on regional water management issues; and,

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and,

WHEREAS, Valley District participated in the development of the 2007 and 2015 IRWMPs and adopted the 2007 and 2015 IRWMPs; and,

WHEREAS, the IRWMP established an update schedule of every five (5) years and is due to be updated; and,

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and,

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and,

WHEREAS, Valley District meets the definition of an urban water supplier for purposes of the UWMP Act; and,

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five (5) years on or before July 1, in years ending in six and one; and,

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP (RUWMP) was prepared by ten (10) different water suppliers to collectively meet the requirements of the UWMP Act; and,

WHEREAS, Valley District participated in the 2010 and 2015 RUWMP, and both are due to be updated; and,

WHEREAS, Valley District and nineteen other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and,

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and,

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 -- Regional Context, Part 2 -- Regional Supporting Information, Part 3 -- Individual Agency UWMPs and Part 4 -- Individual Agency Supporting Information; and,

WHEREAS, as a participant in the 2020 IRUWMP, Valley District has prepared those portions of the IRUWMP applicable to Valley District to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include

Part 1, Part 2, Part 3, Chapter 1: Agency UWMP, and Part 4 Appendix A: Agency Supporting Information; and,

WHEREAS, in accordance with applicable legal requirements, Valley District has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and,

WHEREAS, in accordance with the UWMP Act, Valley District has prepared the 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and,

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding Valley District's adoption of Part 1, Part 2 Chapter 1, Part 3, and Part 4 Appendix A of the 2020 IRUWMP was published within the jurisdiction of Valley District on June 1, 2021 and June 8, 2021; and,

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 15, 2021 at 2:00 PM, or soon thereafter, via Zoom teleconference meeting, Meeting ID: 684 456 030, <https://sbvmwd.zoom.us/j/684456030>, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and,

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, Valley District, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within Valley District's service area with regard to the preparation of the Plan, encouraged community input regarding the 2020 IRUWMP; and,

WHEREAS, the Valley District Board of Directors has reviewed and considered the purposes and requirements of the IRWM Act and the UWMP Act, the contents of the

2020 IRUWMP, and the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and,

WHEREAS, the Valley District Board of Directors desires to adopt Part 1, Part 2 Chapter 1, Part 3, and Part 4 Appendix A of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of the San Bernardino Valley Municipal Water District as follows:

1. Part 1, Part 2 Chapter 1, Part 3, and Part 4 Appendix A of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the Valley District Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Valley District Board of Directors;
2. The General Manager is hereby authorized and directed to include a copy of this Resolution in Valley District's 2020 IRUWMP;
3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the Valley District's portions of the 2020 IRUWMP to DWR no later than July 1, 2021;
4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which Valley District provides water supplies no later than thirty (30) days after this adoption date;
5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at the Valley District offices during normal business hours and on the Valley District website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;
6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP

prepared pursuant to Water Code Section 10635(a) to any city or county within which Valley District provides water supplies no later than sixty (60) days after submitting a copy to DWR;

7. The General Manager is hereby authorized and directed to implement the 2020 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the Valley District Board of Directors regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

8. This Resolution shall be effective as the date of adoption.

ADOPTED, this 15th day of June, 2021.



Paul R. Kielhold, President

ATTEST:



Heather P. Dyer, Secretary

A-4: Agreements

Not Used. SBVMWD does not have any relevant Agreements referenced in their UWMP.

A-5: DWR Population Tool Output

Not Used. The DWR Population Tool was not used for SBVMWD.

A-6: DWR Tables

2-2 | Public Water Systems

STATUS:

NOTES:

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Watershed Integrated Regional Urban Water

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Wholesaler	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4W | Water Supplier Information Exchange

STATUS:

NOTES: -

Supplier has informed more than 10 other water suppliers of water supplies available in accordance with Water Code Section 10631. Completion of the table below is optional.

If not completed, include a list of the water suppliers that were informed.

Location of List:

Wholesale Water Supplier Name

3-1W | Current & Projected Population

STATUS:

NOTES:

Population Served	2020	2025	2030	2035	2040	2045
Total	715,859	747,984	781,550	816,622	843,974	872,242
Total	715,859	747,984	781,550	816,622	843,974	872,242

4-1W | Actual Demands for Water

STATUS: Published

NOTES:

Losses are the difference between DWR meter readings and Valley District meter readings.

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Groundwater Recharge		Raw Water	6,933
Sales/Transfers/Exchanges to Other Agencies	Direct Delivery	Raw Water	15,746
Other	Supply into Local Storage	Raw Water	889
Losses	Meter Errors	Raw Water	(64)
Other	SWP Carryover	Raw Water	16,707
Total:			40,211

4-2W | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Sales/Transfers/Exchanges to Other Agencies	Direct Deliveries	27,108	28,209	28,702	29,288	29,984
Sales/Transfers/Exchanges to Other Agencies	Groundwater Recharge	32,400	31,299	30,806	36,164	35,468
Total:		59,508	59,508	59,508	65,452	65,452

4-3W | Total Water Use

STATUS: Published

NOTES: -

	2020	2025	2030	2035	2040	2045
Potable and Raw Water From Table 4-1W and 4-2W	40,211	59,508	59,508	59,508	65,452	65,452
Recycled Water Demand* From Table 6-4W	-	-	-	-	-	-
Total Water Demand:	40,211	59,508	59,508	59,508	65,452	65,452

6-1W | Groundwater Volume Pumped

STATUS: Published

NOTES: Valley Distirct pumps water from the San Bernardino Basin (SBB) on behalf of local retail agencies and delivers it via the Baseline Feeder. This is accounted for as SBB production by the retail agencies and is not shown as a Valley District supply to avoid double-counting.

Supplier does not pump groundwater. The supplier will not complete the table.					
Total:	-	-	-	-	-

6-5W | 2015 Recycled Water Use Projection Compared to 2020 Actual

STATUS:

NOTES:

Recycled water was not used or distributed by the supplier in 2015, nor projected for use or distribution in 2020. The supplier will not complete the table.

Name of Receiving Supplier or Direct Use by Wholesaler	2015 Projection for 2020	2020 Actual Use
Total:	-	-

6-7W | Expected Future Water Supply Projects or Programs

STATUS:

NOTES: See Part 1 Chapter 3.6 and Part 1 Chapter 5 for a discussion and quantification of future water supply projects.

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

Page Location for Narrative in UWMP:		Part 1 Chapter 3.6 and Part 1 Chapter 5				
Name of Future Projects or Programs	Joint Project with Other Suppliers	Agency Name	Description	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier

6-8W | Actual Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Supply from Storage	State Water Project Carryover	11,471	Other Non-Potable Water	
Purchased or Imported Water	State Water Project Table A	20,520	Other Non-Potable Water	102,600
Supply from Storage	SWP Yuba Accord	3,220	Other Non-Potable Water	
Supply from Storage	SWP Kern Delta	5,000	Other Non-Potable Water	
Total:		40,211		102,600

6-9W | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Purchased or Imported Water	State Water Project Table A	59,508	102,600	59,508	102,600	59,508	102,600	53,352	102,600	53,352	102,600
Supply from Storage	Sites Reservoir							12,100	12,100	12,100	12,100
Total:		59,508	102,600	59,508	102,600	59,508	102,600	65,452	114,700	65,452	114,700

7-1W | Basis of Water Year Data (Reliability Assessment)

STATUS: Published

NOTES: See Part 1 Chapter 3.2.3 for basis of water year and quantification of volume available, which is not compatible with this table because it changes over time.

Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP.

Page Location for Narrative in UWMP: Part 1 Chapter 3.2.3

7-2W | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9W	59,508	59,508	59,508	65,452	65,452
Demand Totals From Table 4-3W	59,508	59,508	59,508	65,452	65,452
Difference:	0	0	0	0	0

7-3W | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	15,130	15,130	15,130	45,530	45,530
Demand Totals	15,130	15,130	15,130	45,530	45,530
Difference:	0	0	0	0	0

7-4W | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES:

		2025	2030	2035	2040	2045
First Year	Supply Totals	26,676	26,676	26,676	52,972	52,972
	Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference:		0	0	0	0	0
Second Year	Supply Totals	26,676	26,676	26,676	52,972	52,972
	Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference:		0	0	0	0	0
Third Year	Supply Totals	26,676	26,676	26,676	52,972	52,972
	Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference:		0	0	0	0	0
Fourth Year	Supply Totals	26,676	26,676	26,676	52,972	52,972
	Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference:		0	0	0	0	0
Fifth Year	Supply Totals	26,676	26,676	26,676	52,972	52,972
	Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference:		0	0	0	0	0
Sixth Year	Supply Totals	26,676	26,676	26,676	52,972	52,972
	Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference:		0	0	0	0	0

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	26,676
	Total Supplies	26,676
	Surplus/Shortfall without WSCP Action	0
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	0
Resulting Percent Use Reduction from WSCP Action	0%	
2022	Gross Water Use	26,676
	Total Supplies	26,676
	Surplus/Shortfall without WSCP Action	0
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	0
Resulting Percent Use Reduction from WSCP Action	0%	
2023	Gross Water Use	26,676
	Total Supplies	26,676
	Surplus/Shortfall without WSCP Action	0
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	0
Resulting Percent Use Reduction from WSCP Action	0%	
2024	Gross Water Use	26,676
	Total Supplies	26,676
	Surplus/Shortfall without WSCP Action	0
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	0
Resulting Percent Use Reduction from WSCP Action	0%	
2025	Gross Water Use	26,676
	Total Supplies	26,676
	Surplus/Shortfall without WSCP Action	0
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	0
Resulting Percent Use Reduction from WSCP Action	0%	

8-1 | Water Shortage Contingency Plan Levels

STATUS: Published

NOTES:

The BTAC will evaluate the water shortage conditions on a case-by-case basis and determine which response actions are appropriate to maintain regional water supply reliability or mitigate potential impacts. Due to proactive planning, size and storage amounts in local groundwater basins, and the condition of service for imported water that requires local backup, regional water shortage is highly unlikely. Levels 1 through 6 are listed for informational and compliance purposes only.

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Up to 10% - Declaring this shortage level may trigger any or all of the following response actions: Ongoing Water Use Efficiency, Public Outreach, Maximize SWP Supplies, Use Groundwater in Storage, Operational Changes, & Voluntary Demand Reductions
2	Up to 20%	Up to 20% - Declaring this shortage level may trigger any or all of the following response actions: Ongoing Water Use Efficiency, Public Outreach, Maximize SWP Supplies, Use Groundwater in Storage, Operational Changes, & Voluntary Demand Reductions
3	Up to 30%	Up to 30% - Declaring this shortage level may trigger any or all of the following response actions: Ongoing Water Use Efficiency, Public Outreach, Maximize SWP Supplies, Use Groundwater in Storage, Operational Changes, & Voluntary Demand Reductions
4	Up to 40%	Up to 40% - Declaring this shortage level may trigger any or all of the following response actions: Ongoing Water Use Efficiency, Public Outreach, Maximize SWP Supplies, Use Groundwater in Storage, Operational Changes, & Voluntary Demand Reductions
5	Up to 50%	Up to 50% - Declaring this shortage level may trigger any or all of the following response actions: Ongoing Water Use Efficiency, Public Outreach, Maximize SWP Supplies, Use Groundwater in Storage, Operational Changes, & Voluntary Demand Reductions
6	>50%	Greater than 50% - Declaring this shortage level may trigger any or all of the following response actions: Ongoing Water Use Efficiency, Public Outreach, Maximize SWP Supplies, Use Groundwater in Storage, Operational Changes, & Voluntary Demand Reductions

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

8-2 | Demand Reduction Actions

STATUS:

NOTES: The BTAC will evaluate the water shortage conditions on a case-by-case basis and determine which response actions are appropriate to maintain regional water supply reliability or mitigate potential impacts. Due to proactive planning, size and storage amounts in local groundwater basins, and the condition of service for imported water that requires local backup, regional water shortage is highly unlikely. Levels 1 through 6 are listed for informational and compliance purposes only.

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
Shortage Level 1	Other	0-20%	Voluntary Demand Reductions - Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs. Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.	No

Shortage Level 2	Other	0-20%	Voluntary Demand Reductions - Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs. Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.	No
Shortage Level 3	Other	0-20%	Voluntary Demand Reductions - Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs. Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.	No
Shortage Level 4	Other	0-20%	Voluntary Demand Reductions - Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs. Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.	No

Shortage Level 5	Other	0-20%	Voluntary Demand Reductions - Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs. Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.	No
Shortage Level 6	Other	0-20%	Voluntary Demand Reductions - Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs. Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.	No

8-3R | Supply Augmentation & Other Actions

STATUS: Published

NOTES:

The BTAC will evaluate the water shortage conditions on a case-by-case basis and determine which response actions are appropriate to maintain regional water supply reliability or mitigate potential impacts. Due to proactive planning, size and storage amounts in local groundwater basins, and the condition of service for imported water that requires local backup, regional water shortage is highly unlikely. Levels 1 through 6 are listed for informational and compliance purposes only.

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
Shortage Level 1	Stored Emergency Supply	0-100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.
Shortage Level 1	Other Actions (describe)	0-15%	SWP Supply Augmentation - SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.
Shortage Level 2	Stored Emergency Supply	0-100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.
Shortage Level 2	Other Actions (describe)	0-15%	SWP Supply Augmentation - SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.
Shortage Level 3	Stored Emergency Supply	0-100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.

Shortage Level 3	Other Actions (describe)	0-15%	SWP Supply Augmentation - SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.
Shortage Level 4	Stored Emergency Supply	0-100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.
Shortage Level 4	Other Actions (describe)	0-15%	SWP Supply Augmentation - SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.
Shortage Level 5	Stored Emergency Supply	0-100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.
Shortage Level 5	Other Actions (describe)	0-15%	SWP Supply Augmentation - SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.
Shortage Level 6	Stored Emergency Supply	0-100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.
Shortage Level 6	Other Actions (describe)	0-15%	SWP Supply Augmentation - SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.

10-1W | Notification to Cities & Counties

STATUS:

NOTES:

Supplier has notified more than 10 cities or counties in accordance with Water Code Sections 10621 (b) and 10642. Completion of the table is not required. Provide a separate list of the cities and counties that were notified.

Page Location for List in UWMP:

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	San Bernardino Valley Municipal Water District	Reporting Period Start Date	
Water Delivery Product	Wholesale Non-Potable Deliveries	Reporting Period End Date	
	Urban Water Supplier Operational Control		
	Sum of all Water Management Process	Non-Consequential Hydropower	
	Total Utility	Hydropower	Net Utility
Volume of Water Entering Process (AF)			0
Energy Consumed (kWh)	Data Not Available		#VALUE!
Energy Intensity (kWh/AF)	0.0	0.0	0.0
Data Quality	Select One	Quantity of Self-Generated Renewable Energy	kWh
Data Quality Narrative	Valley District receives deliveries of SWP from DWR through shared facilities. DWR bills Valley District for a portion of the variable costs to convey water through shared facilities and the energy costs are embedded. Valley District cannot readily obtain energy use data therefore, data is not reported in this table.		
Water Supply Narrative			

A-7: SBX7-7 Forms

Not Used. SBVMWD being a wholesale agency is not required to submit SBX7-7 Forms.

A-8: AWWA Water Audits

Not Used. SBVMWD being a wholesale agency is not required to perform water audits.

A-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact the San Bernardino Valley Municipal Water District to obtain the most current version of the WSCP.

Regional Water Shortage Contingency Plan

JUNE 2021

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT



SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

Regional Water Shortage Contingency Plan

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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1 Regional Water Shortage Contingency Plan

This Regional Water Shortage Contingency Plan is a strategic plan that Valley District and their regional partners use to prepare for and respond to foreseeable and unforeseeable water shortages.

San Bernardino Valley Municipal Water District (Valley District) is responsible for long-range water supply management within its service area, including importing supplemental water as a State Water Project (SWP) Contractor. Valley District is also responsible for managing the groundwater supplies in San Bernardino Basin, Rialto-Colton Basin, and Riverside North Basin per the 1969 Western Judgment. Valley District delivers raw SWP water to the surface water treatment plants of several local retail water agencies and stores the remaining SWP supplies, if any, in local groundwater basins to be used in dry years.

Valley District fulfills its responsibilities for managing local groundwater basins by working with the Basin Technical Advisory Committee (BTAC) each year to develop an annual Regional Water Management Plan that considers SWP supply availability and groundwater basin conditions and recommends water management goals for the coming year. The BTAC is comprised of members from each of the retail water agencies that depend on shared regional supplies. More information on regional water supplies and management, the BTAC, and Valley District's role is provided in the Upper Santa Ana River Watershed 2020 Integrated Regional Urban Water Management Plan (2020 IRUWMP).

IN THIS SECTION

- Regional Water Supply Reliability
- Annual Water Supply and Demand Assessment
- Regional Supply Shortage Stages and Response Actions

The IRUWMP describes the water supplies available to meet the urban water demand in the Valley District service area. A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. Due to the storage and size of local groundwater basins coupled with a diverse water portfolio and systems redundancy, the risk of a shortage is very low. Although the IRUWMP demonstrates that urban water supply within the region is reliable and significantly exceeds demand, there are risks that are unlikely but impossible to predict that should be considered in planning. This Regional Water Shortage Contingency Plan (Regional WSCP) provides a framework to plan for these risks and anticipate actions that should be implemented promptly and equitably.

The Regional WSCP is independent of the WSCPs adopted by each of the retail urban water suppliers in the region and does not dictate the water shortage levels and response actions implemented by each of the retail agencies. Each retail agency has adopted their own WSCP that defines how their agency will respond in the event of a water shortage that impacts their customers. The Regional WSCP is intended to be aligned with retail agency WSCPs to facilitate a coordinated regional response, but each agency will perform independent assessments of their unique water supply reliability and make their own decisions about whether to implement shortage stages and response actions contained in their respective WSCPs.

The Regional WSCP describes the coordinated regional water management procedures that Valley District and the BTAC have been conducting for many years to prevent catastrophic service disruptions through proactive mitigation of potential regional water shortages. The Regional WSCP provides a process for an annual water supply and demand assessment and a range of actions that could be implemented to respond to actual conditions. This extension of the ongoing regional planning and coordination process will help the region continue to maintain reliable supplies.

This Regional WSCP was prepared in collaboration with the BTAC in conjunction with the 2020 IRUWMP and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporates guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook 2020 (1). Valley District and the BTAC will continue to monitor the effectiveness of this WSCP, and if the need arises to modify this plan, will follow the update procedures described in Section 1.7.

The Regional WSCP covers the required elements as set forth in CWC Section 10632. As Valley District is a wholesale urban water supplier, elements that pertain only to retail water suppliers are not addressed in this WSCP but are included in the WSCPs of each retail urban water supplier in the region.

The WSCP describes the following:

1. **Water Supply Reliability Analysis:** Summarizes regional water supply reliability analysis from the 2020 IRUWMP and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage levels and response actions, when needed.
3. **Shortage Stages:** Establishes water shortage levels to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Legal Authority:** Description of legal authorities to implement and enforce response actions.
7. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial consequences of and responses for drought conditions.
8. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines the process to complete an update.
9. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.1 Regional Water Supply Reliability

This section provides a summary of the supply reliability analysis presented in the 2020 IRUWMP and highlights key issues that could create a shortage condition.

The supplies in the Valley District region have a high degree of reliability. Under average conditions, Valley District's allocation of SWP water exceeds the demands for direct deliveries by retail customers and the remaining SWP supplies are recharged in local groundwater basins as determined by the BTAC Annual Regional Water Management Plan to support long term sustainable use of the groundwater basins. Valley District and the retail water agencies recognize that water availability through the SWP is intermittent. As a result, Valley District's Resolution No. 888 "Rules for Service", requires that all of its customers have a 100 percent backup for any amount of water they order from the SWP. Under a typical dry year scenario when SWP supplies are reduced, retail water agencies shift to using groundwater that was put into storage in prior years.

The reliability analysis is presented in the 2020 IRUWMP and demonstrates that the region's urban water supply is reliable even during multiple dry years.

There are potential issues that could create a regional water supply shortage condition.

These include:

- An extended drought more severe than historic events, possibly driven by climate change
- An extended and wide-spread power outage that limits water agencies' ability to produce and distribute local surface or groundwater supplies
- Long term reductions in imported water supply due to environmental restrictions related to endangered species or habitat protection.
- Identification of a currently unregulated contaminant that affects the region's ability to use the available groundwater supply.

Water shortage contingency planning provides a framework to plan for these risks and anticipate actions that should be implemented to manage the impacts. This plan describes how the region intends to respond to such shortage events.

1.2 Annual Water Supply and Demand Assessment

As a wholesale urban water supplier, Valley District must prepare and submit an Annual Water Supply and Demand Assessment. The Annual Assessment is a determination of the near-term outlook for supplies and demands and an assessment of the likelihood of a water shortage occurring during the next 12 months. This determination is based on known circumstances and information available at the time of analysis. Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. CWC Section 10632.1 also allows for "[a]n 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."

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in **Table 1**. The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted by retail water agencies in parallel, is shown graphically in

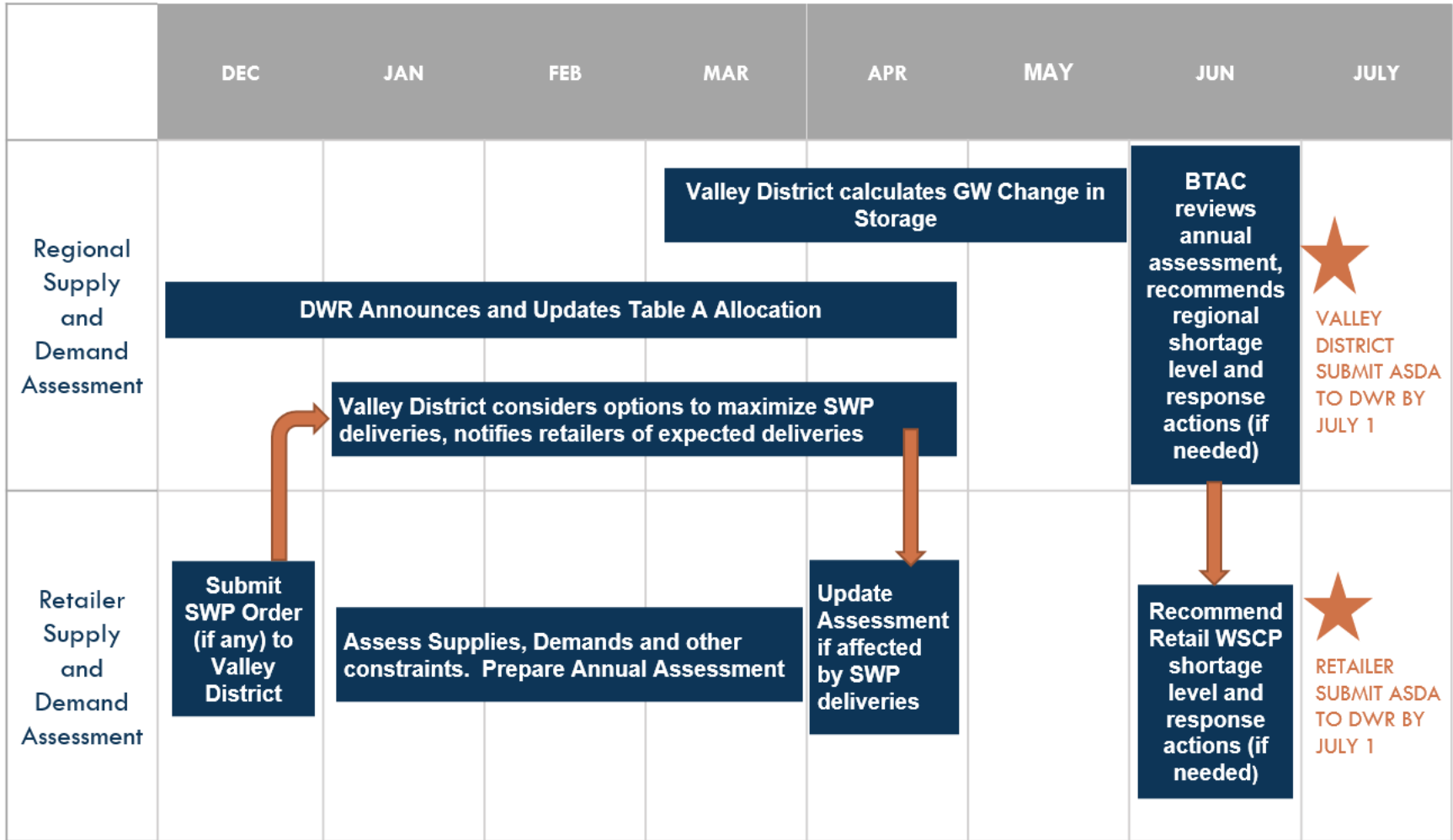
Figure 1.

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS
December to March	Estimate unconstrained demands for coming year	Each December, retail agencies submit orders to Valley District for SWP direct deliveries for the following year. In March, records of total production from local groundwater and surface water supplies for the prior year are compiled for annual reporting. An estimate of regional demands on local water sources for the coming year will be based on prior year production plus any anticipated changes and increases due to weather, growth and SWP supply availability.
December to May	Estimate available supplies for the year, considering the following year will be dry	Typically between December and April each year, DWR announces initial and revised SWP allocations, which may be revised multiple times depending on conditions. Valley District then considers whether to augment expected SWP deliveries with supplies from other sources for the coming year, considering that the following year may be dry. Valley District meets with the retail agencies to reconcile available supplies with requested SWP deliveries. If SWP supplies are lower than requested deliveries, retailers will be advised to shift to stored groundwater per the Integrated Regional Urban Water Management Plan; this does not necessarily indicate a water shortage since the region will be storing water in wet years to overcome dry years. In April to May of each year, Valley District evaluates available storage in each groundwater basin.
December to April	Consider potential constraints that may impact supply delivery	Valley District will identify any known DWR or Valley District infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity. If infrastructure issues impact direct deliveries of SWP water, retail agencies will be advised to shift to stored groundwater per the Integrated Regional Urban Water Management Plan; this does not necessarily indicate a water shortage since the region will be storing water in wet years to overcome dry years. The BTAC will identify any potential or emerging impacts to regional groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs until treatment facilities are constructed.

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS
March to June	Conduct Annual Assessment	The BTAC will compare groundwater in storage to expected demands for the coming year, assuming the following year will be dry, as well as other potential supply constraints, and determine whether the potential for a shortage condition exists. BTAC is working to develop groundwater management zones that will trigger associated shortage response actions. The BTAC will decide whether to recommend any specific response action(s) for the region to the Valley District Board of Directors.
June	Board of Directors Action	If the BTAC recommends a regional shortage stage and response actions, a recommendation will be provided to the Valley District Board of Directors for adoption by resolution to guide regional response and messaging. If the Regional WSCP is activated, retail agencies can implement consistent local response actions as necessary for their service areas and activate their local WSCP. Retail agencies will make their own recommendations to their respective decision-making bodies based on their own independent decision-making processes.
On-going	Implement Regional WSCP actions, if needed	Collaborate with retail water agencies to implement any agreed upon regional shortage response actions, if needed
By July 1	Submit Annual Assessment	Send Final Annual Assessment to DWR

Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline



1.3 Regional Water Shortage Levels and Response Actions

If a potential regional water supply shortage is identified by the BTAC, this section provides information on the regional water shortage levels and response actions that Valley District and the other BTAC members may implement. It is important to note that the regional water management system is complex, and the ultimate actions taken will depend on the unique issues of each particular condition and the opportunities available during a particular shortage condition and may include actions in addition to those listed in this WSCP.

The Regional WSCP shortage levels are aligned with the six standard water shortage levels outlined in the Water Code. Shortage levels indicate the gap in supply compared to normal year availability and will be considered on a regional basis for the Regional WSCP. The six standard water shortage levels correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that could be implemented based on the severity of the impending shortages. The trigger levels used to determine water shortage levels will depend on local water conditions.

The BTAC will evaluate the water shortage conditions on a case-by-case basis and determine which response actions are appropriate to maintain regional water supply reliability or mitigate potential impacts. The regional response to potential shortages may include increased public outreach throughout the region, exploration of additional supply sources, changes to typical operations, and promoting voluntary actions to reduce demands. The six Regional Water Shortage Levels and corresponding response actions that could be implemented are summarized in Table 2. The following subsections describe potential response actions in more detail.

Valley District and the BTAC may also implement additional actions not listed in Table 2 and may implement a combination of the actions specified below, as appropriate, but not necessarily all five actions for each level. Selected actions will depend on the nature of water shortage conditions at a given time.

Table 2. Regional Water Shortage Levels and Potential Response Actions

REGIONAL WATER SHORTAGE LEVELS	ONGOING WATER USE EFFICIENCY	PUBLIC OUTREACH	MAXIMIZE SWP SUPPLIES	USE GROUNDWATER IN STORAGE	OPERATIONAL CHANGES (IF ANY)	VOLUNTARY DEMAND REDUCTIONS
Normal Conditions* No Shortage	✓	✓				
Level 1 Up to 10%	✓	✓	✓	✓	✓	✓
Level 2 Up to 20%	✓	✓	✓	✓	✓	✓
Level 3 Up to 30%	✓	✓	✓	✓	✓	✓
Level 4 Up to 40%	✓	✓	✓	✓	✓	✓
Level 5 Up to 50%	✓	✓	✓	✓	✓	✓
Level 6 Above 50%	✓	✓	✓	✓	✓	✓

*Due to proactive planning, size and storage amounts in local groundwater basins, and the condition of service for imported water that requires local backup, regional water shortage is highly unlikely. Levels 1 through 6 are listed for informational and compliance purposes only.

1.3.1 Ongoing Water Use Efficiency

Valley District actively promotes water use efficiency and partners with the retail agencies in the region to support sustainable management of regional water supplies regardless of water supply conditions. Past and ongoing efforts include reimbursing retail agencies for turf removal, weather-based irrigation controller, and high-efficiency toilets amongst others. Ongoing water use efficiency efforts will be coordinated with retail agencies and will take place throughout all regional response levels. Water use efficiency measures will target all sectors of water users to ensure lasting and measurable change in water use.

1.3.2 Public Outreach

On a regular basis, Valley District conducts public outreach to inform and educate the public about local water conditions, projects planned to improve regional water supply reliability and water use efficiency.

During a water shortage condition, Valley District collaborates with the retail water agencies to provide enhanced and coordinated public outreach to communicate current water supply conditions, actions that are being taken by regional water agencies, and actions the public is being asked to take to help reduce water use during the shortage.

1.3.3 Maximize SWP Supplies

In the event of a reduced SWP allocation in a given year, Valley District can exercise one or more of the following options to provide additional imported water for direct deliveries in the region. Direct deliveries are around 20,000 to 25,000 acre-feet each year.

The quantity of supply available from each of these programs can vary based on conditions at the time and Valley District will evaluate these options and others on a case-by-case basis.

- SWP Carryover Storage
- Yuba Accord
- State Water Contractors Dry Year Transfer Program
- Sites Reservoir (storage project under development)
- Other available supply programs

Any direct SWP water demands that are not met by augmenting the SWP deliveries in a given year will be met by shifting production to other local water sources.

1.3.4 Use Groundwater in Storage

The region's water management strategy prioritizes storing stormwater and SWP water in local groundwater basins during wet years when it is plentiful to store for later use during dry years when surface water supplies are limited. This strategy strengthens local water supply reliability and provides a buffer during naturally variable hydrologic conditions to reduce vulnerability to supply shortages.

Valley District actively monitors groundwater storage levels each year. The region has adopted a proactive approach to recharging more water in wet years. Funding for these wet year water purchases is being organized through groundwater "councils" that work collaboratively to manage the and groundwater basin to ensure sustainability long into the future. BTAC will be working to develop management zones for each groundwater basin that will include response actions for each zone based upon the current storage level.

1.3.5 Operational Changes

Valley District and the retail water agencies have mutual aid agreements and assist each other, if possible, in emergency situations.

Valley District and the retail water agencies will consider their operational procedures at the time of a shortage to identify changes that can be implemented to address regional water shortages on a short-term basis, including: temporarily altering maintenance cycles, deferring planned system outages, and adjusting the flow and routing of water through their systems to more effectively distribute available supply across the region.

Valley District also has a Coordinated Operating Agreement with Metropolitan Water District that could provide mutual aid in the event of a shortage.

1.3.6 Voluntary Demand Reductions

If the BTAC determines that the potential for a shortage condition exists, they may recommend voluntary demand reductions by retail agencies to reduce groundwater pumping and preserve storage for future dry years. Demand reductions would be implemented by each individual retail agency through implementation of their respective WSCPs and would be supported by enhanced regional public outreach.

1.3.7 Shortage Response Action Effectiveness

The region expects to address any regional supply shortages through a combination of public outreach, SWP supply augmentation, use of groundwater in storage, operational changes and voluntary demand reductions, if needed. The estimated range of potential supply shortage reductions that could be achieved from each response action is summarized in **Table 3**.

Table 3. Potential Supply Shortage Reduction for Response Actions

RESPONSE ACTION	POTENTIAL SUPPLY SHORTAGE REDUCTION	DESCRIPTION
Ongoing Water Use Efficiency	n/a	Valley District supports regional water use efficiency programs and will track resulting demand reduction.
Public Outreach	Supports effectiveness of other actions	Anticipated shortages may trigger an appropriately sized outreach campaign to address the targeted demand reduction, which depends on the combined effectiveness of other shortage response actions.
SWP Supply Augmentation	Up to 15%	SWP supply augmentation options would help address any shortage for SWP direct deliveries and would depend on availability of those supplies.
Use Groundwater in Storage	Up to 100%	The use of groundwater in storage is expected to address up to 100 percent of anticipated shortages, depending upon the amount of groundwater in storage.
Voluntary Demand Reductions	Up to 20%	Efficacy of demand reduction efforts is difficult to estimate or predict. Water savings are a function of the extent to which public information campaigns reach water users and the degree of consumer response to those messages, as well as the response of individual retail agencies and their willingness and ability to implement and enforce their respective WSCPs Based on results from the previous drought, the region expects that region wide demands could be reduced by up to 20% depending on the severity of the shortage.

1.3.8 Emergency Response Plan

Valley District and the retail water agencies recognize that water availability through the SWP is intermittent. As a result, Valley District’s Resolution No. 888 “Rules for Service”, requires that all of its customers have a 100 percent backup for any amount of water they order from the SWP.

The primary regional contingency strategy is groundwater storage. During an outage of the State Water Project, agencies would rely primarily on local groundwater supplies. One of the primary management strategies in the IRUWMP is to store water in wet years so that it is available in dry years. However, any additional stored water would also be available during a water shortage.

A second strategy for addressing water supply during an emergency is system redundancy and interconnections between purveyors.

Nearly all of the retailers in the San Bernardino Valley participate in the Emergency Response Network of the Inland Empire (ERNIE). ERNIE is a water/wastewater mutual aid network within San Bernardino and Riverside counties. ERNIE meets monthly and provides regular training for utilities in emergency response and long-term emergency planning.

Finally, Valley District has identified alternative conveyance facilities which could be used in the event of a failure of one of Valley District's pipelines. For example, Valley District has an agreement with Metropolitan Water District of Southern California which could allow the use of the Inland Feeder Pipeline to bypass a large portion of Valley District's primary delivery pipeline, the Foothill Pipeline.

Valley District developed an updated Emergency Operations Plan (EOP) in 2021, which includes a protocol to assess damage and threats during an emergency and restore facilities to service. Potential threats include:

- Operational incidents, such as fire or bacteriological contamination of water associated with Valley District facilities.
- Outsider malevolent acts, such as threatened or intentional contamination of water, intentional damage/destruction of facilities, detection of an intruder or intruder alarm, bomb threat, or suspicious mail.
- Natural disasters, such as earthquakes, floods, or wildfires.

Since critical pieces of infrastructure and specific vulnerabilities are detailed in the EOP, the contents of the document are confidential and for use by Valley District's staff only.

1.3.9 Regional Seismic Risk Assessment and Mitigation

This section addresses vulnerability of the region's water supply system to catastrophic events that may interrupt the water deliveries in the Region.

Valley District Hazard Mitigation Plan

In 2018, Valley District updated its Hazard Mitigation Plan (HMP), which is included as Attachment 2 to this WSCP.

The HMP evaluates earthquake hazards and identifies that both the San Andreas and San Jacinto Faults are capable of producing an earthquake with a magnitude of greater than 8.0. An earthquake of this magnitude could cause extensive damage to Valley District facilities and disrupt Valley District's ability to deliver water to local retail water providers. There are also other smaller faults that are capable of generating earthquakes large enough to damage Valley District facilities and disrupt water delivery.

The HMP establishes the following mitigation goals and strategies for earthquakes:

Goal:

To mitigate the effects of seismic activity on Valley District facilities to prevent further damage, such as flooding, that could occur as a result of a pipeline break.

Objectives:

Technologically, there is no way to mitigate against a break in our pipeline during an earthquake event near District pipelines, but there are ways to reduce post-event related damages to others (such as damage due to flooding).

This includes the installation of:

1. Installation of seismically activated actuators that automatically close valves in a seismic event.
2. SCADA technology that allows remote operation of facilities following an emergency
3. After emergency automatically starting remote electrical power.

These three items will each be required at the three line valves along the Foothill Pipeline. These improvements could reduce damage, or destruction, of our facilities. Hydraulic energy dissipation (in which the water contained in the pipeline will act as a battering ram against the valves) will occur once any of our line valves are closed. To prevent this, operation of our valves must be operated quickly and efficiently to prevent additional breaks that are not a direct result of the earthquake event.

Mitigation Projects:

Foothill Pipeline Line Valve Vault Seismic Actuators

Vulnerability to Catastrophic Interruption of Water Supply and Disaster Preparedness

The 2015 IRWMP included an assessment entitled Vulnerability to Catastrophic Interruption of Water Supply and Disaster Preparedness, which is summarized in this section and included in **Part 3 Appendix E** of the 2020 IRWUMP.

Given the presence of the San Andreas Fault, San Jacinto Fault and many other faults, a large magnitude earthquake is generally considered the most likely and “worst case” natural disaster for the region. The other possible catastrophic interruptions such as regional power failure, terrorist attack, or other man-made or natural catastrophic event would cause similar conditions but would likely not be as severe. For purposes of this report, a major earthquake is defined as an earthquake on the San Andreas Fault (SAF) on the order of 8.0.

The San Bernardino Valley is a seismically active area of Southern California. Four major fault zones are found in the region, including the San Jacinto Fault, the Chino-Corona segment of the Elsinore Fault, the Cucamonga Fault, and the SAF. Numerous other minor faults associated with these larger fault structures may also present substantial hazards. The SAF is a right-lateral strike-slip fault that runs approximately 800 miles through western and southern California. The fault marks a transform boundary between the Pacific Tectonic Plate and the North American Tectonic Plate. In Southern California, the SAF runs along the southern base of the San Bernardino Mountains, crosses through Cajon Pass, and continues northwest along the northern base of the San Gabriel Mountains. Historical records indicate that massive earthquakes have occurred in the central section of the SAF in 1857 and in the northern section in 1906 (the San Francisco Earthquake). In 1857, an estimated magnitude 8+ earthquake

occurred on the San Andreas Fault rupturing the ground for 200 to 275 miles, from near Cholame to Cajon Pass and possibly as far south as San Geronio Pass. The recurrence interval for a magnitude 8 earthquake along the total length of the fault is estimated to be between 50 and 200 years. It has been over 150 years since the 1857 rupture.

1.3.9.1 Facility Reliability

The following sections summarize the findings of the Vulnerability to Catastrophic Interruption of Water Supply and Disaster Preparedness prepared for the IRWMP. These findings have been developed from a search of literature reporting the impacts of major earthquakes and limited work by water purveyors.

1.3.9.2 Reliability of Groundwater Wells

Review of post-earthquake lifeline performance reports reveals little discussion of groundwater well failure. However, loss of utility power, damage to electrical equipment and above ground appurtenances, or damage to the distribution system may effectively put wells out of service. Liquefaction, especially in areas where there are high groundwater levels between depths of 5 to 50 feet, may cause ground settlement and interfere with continued well operation. No discussion of the performance of wellhead treatment systems during earthquakes was found. This may be due to the limited amount of well head treatment in place during prior earthquakes. As wellhead treatment typically includes purchased equipment installed in a field location, there is significant opportunity for lapses in the seismic design. The groundwater basin and the groundwater production wells are a reliable part of the water supply system for the San Bernardino area.

1.3.9.3 Reliability of Pipelines

Pipelines are generally the most fragile part of a water system. Generally, damage is a function of displacement rather than shaking. Empirical algorithms have been developed to predict seismic reliability of pipelines.

1.3.9.4 Reliability of Pump Stations

Past earthquakes indicate that the structural and mechanical elements of a pump station are highly resistant to earthquake damage. The most likely failures are to the electrical equipment and loss of commercial power. Most pump stations are either equipped with an automatic transfer switch to enable connection to a permanent standby generator or have an electrical outlet for connection to a mobile generator.

1.3.9.5 Reliability of Surface Water Treatment Facilities

The major elements of a surface water treatment system are typically concrete structures that are very resistant to damage. However, these facilities include a large variety of mechanical

equipment, much of it long and lightweight and subject to damage not only from the direct force of an earthquake, but also from the wave action created by the earthquake. Similar to a pump station, power supply and electrical equipment are fragile. However, treatment facilities also are constructed with provisions for standby power, either permanent or temporary.

1.3.9.6 Reliability of the State Water Project

While little specific information was found on anticipated damage to the SWP, a major vulnerability of the SWP is the Sacramento-San Joaquin Delta and the high susceptibility of the Santa Ana Valley Pipeline (California Aqueduct) is recognized. The SWP has a Business Resumption Plan and an Emergency Operations Plan.

1.3.9.7 Length of Outages

Length of water service outages vary by earthquake and by purveyor.

Valley District's Emergency Operations Plan includes estimates for repair of Valley District facilities. Electrical and pipe repairs are estimated to take 35 to 77 days. Pump repairs are estimated to take 168 to 273 days. In summary, the Region should prepare for up to a four-month outage.

1.3.9.8 Strategies to Improve Regional Preparedness

Based on the recommendations in the 2015 IRWMP, the following strategies were identified to enhance regional disaster preparedness:

- Valley District is planning to implement seismic improvements for high priority facilities, including the Foothill Pipeline.
- Projects are proposed that could provide production and conveyance system redundancies for regional facilities. These include:
 - The proposed BHCUP, which could provide backup well production capacity for the Yucaipa area when SWP supplies have been severed.
 - The Central Feeder/EBX2 Intertie, which provides an additional connection between Valley District's system and DWR's system and could be used to bypass a portion of Valley District's conveyance system in the event of failure.
- A catastrophic earthquake may cause loss of electricity for an indeterminate amount of time. In order to ensure water supplies in the immediate aftermath and weeks following a major earthquake, it is critical to have back-up generators or alternative power sources for important production wells throughout the Region.
- Valley District has a storage program to help meet direct delivery demands during a shortage on the SWP. The current storage program includes the Kern-Delta Water Bank, SWP carryover storage, the Yuba Accord and the State Water Contractors Dry Year Water Transfer Program. Valley District continues to evaluate "upstream" groundwater banks

located along the California Aqueduct to help it provide direct deliveries when SWP supplies are their lowest.

1.3.9.9 General Response Strategies

The San Andreas Fault, which traverses the length of the southern San Joaquin Valley, could impact the State Water Project. The California Division of Mines and Geology has stated that two of the aqueduct systems that import water to southern California (including the California Aqueduct) could be ruptured by displacement on the San Andreas Fault. The situation would be further complicated by physical damage to pumping equipment and local loss of electrical power.

DWR has an Aqueduct Outage Plan for restoring the California Aqueduct to service should a major break occur, which it estimates would take approximately four months to repair. Limitations on supplies of groundwater and/or imported water for an extended period, due to power outages and/or equipment damage, could result in severe water shortages until the supplies could be restored.

The public would be asked to reduce consumption to minimum health and safety levels, extending the supply in treated water storage a number of days. This would provide sufficient time to restore a significant amount of groundwater production. After the groundwater supply is restored, the pumping capacity of the retail purveyors could meet the reduced demand until such time that the imported water supply was reestablished. Updates on the water situation would be made as often as necessary.

Valley District's water sources are generally of good quality, and no insurmountable problems resulting from industrial or agricultural contamination are foreseen. If contamination did result from a toxic spill or similar accident, the contamination would be isolated and should not significantly impact the total water supply. In addition, such an event would be covered by the purveyors Emergency Response Plan.

1.3.10 Communication Protocols

The BTAC holds regular meetings to coordinate on regional water management issues. In the event of regional water supply shortage, a meeting will be convened to discuss supply shortages and response actions. The region can also use these meetings to help coordinate consistent regional messaging in times of drought.

1.4 Legal Authorities

Valley District does not have legal authority to implement or enforce regional supply shortages or response actions. Valley District and the other BTAC agencies work cooperatively to support sustainable management of shared regional water supplies.

1.5 Financial Consequences of WSCP

This section describes the anticipated financial consequences to Valley District of response actions. This description includes potential reductions in revenue due to lower water sales and increased expenses associated with implementing the shortage response actions in the WSCP.

Potential financial impacts could include:

- Reduced revenue from reduced SWP water sales
- Increased cost of obtaining supplemental SWP supplies.
- Increased staff costs for implementing enhanced public outreach and for increased regional coordination.

Potential mitigation measures could include:

- Using financial reserves
- Reducing operation and maintenance expenses
- Deferring capital improvement projects
- Reducing future projected operation and maintenance expenses
- Other financial management mechanisms

1.6 WSCP Refinement Procedures

Valley District and the BTAC will monitor the implementation of this plan to evaluate its effectiveness as an adaptive management tool and periodically evaluate the need for any changes. Potential changes to the WSCP that would warrant an update include, but are not limited to, changes to the shortage level structure or response actions.

Any prospective changes to the WSCP would be accepted by the BTAC first then presented to Valley District's Board for discretionary approval.

1.7 Plan Adoption, Submittal, and Availability

Valley District adopted this Regional WSCP with the 2020 IRUWMP. The 2020 IRUWMP and Regional WSCP were made available for public review in June 2021 and a public hearing was held on June 15, 2021 to receive public input on the draft 2020 IRUWMP and the Regional WSCP.

The Valley District Board of Directors adopted the 2020 IRUWMP and the Regional WSCP at a public meeting on June 15, 2021. The resolution of adoption of the Regional WSCP is included as **Attachment 1**.

This Regional WSCP was submitted to DWR through the WUEData portal before the deadline of July 1, 2021.

[This Regional WSCP will be available to the public on the Valley District web site.](#)

If Valley District and the BTAC identify the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the Regional WSCP.

Attachment 1 - WSCP Adoption Resolution

RESOLUTION NO. 1120**RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN
BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN**

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan (WSCP); and,

WHEREAS, San Bernardino Valley Municipal Water District (“Valley District”) meets the definition of an urban water supplier for purposes of the UWMP Act; and,

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and,

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and,

WHEREAS, Valley District has prepared a WSCP in accordance with the UWMP Act and SB 606, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and,

WHEREAS, the WSCP references and incorporates the Water Conservation provisions of the Valley District’s Resolution No. 888 adopted on November 18, 2002; and,

WHEREAS, in accordance with the UWMP Act, Valley District has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry

standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding Valley District's WSCP was published within the jurisdiction of the Valley District on June 1, 2021 and June 8, 2021; and,

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 15, 2021 at 2:00 PM, or soon thereafter, via Zoom teleconference meeting, Meeting ID: 684 456 030, <https://sbvmwd.zoom.us/j/684456030>, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and,

WHEREAS, pursuant to said public hearing on the WSCP, Valley District, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within Valley District's service area with regard to the preparation of the WSCP, encouraged community input regarding Valley District's WSCP; and,

WHEREAS, the Valley District Board of Directors has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and,

WHEREAS, the Valley District Board of Directors desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of the San Bernardino Valley Municipal Water District hereby resolve as follows:

1. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the Valley District Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Valley District Board of Directors;
2. The General Manager is hereby authorized and directed to include a copy of this Resolution in Valley District's WSCP;
3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;
4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or county within which Valley District provides water supplies no later than thirty (30) days after this adoption date;
5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at Valley District's offices during normal business hours and on Valley District's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;
6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which Valley District provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;
7. The General Manager is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the Valley District Board of Directors regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

8. This Resolution shall be effective as the date of adoption.

ADOPTED, this 15th day of June, 2021.


Paul R. Kielhold, President

ATTEST:


Heather P. Dyer, Secretary

**Attachment 2 -
Valley District 2018 Hazard Mitigation
Plan**

Hazard Mitigation Plan

for the

San Bernardino Valley Municipal Water District

California

Adoption Date: April 17, 2018

**Approved by San Bernardino County,
California OES, and FEMA**

Updated: 2018



Primary Point of Contact

Dan Borell
GIS Coordinator

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RESOLUTION NO. 1068

RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT ADOPTING AND AUTHORIZING REVISIONS TO THE LOCAL HAZARD MITIGATION PLAN.

WHEREAS, the Disaster Mitigation Act of 2000 (DMA2000) (Public Law 106-390) amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Act) by repealing the previous mitigation planning section (Section 409) and replacing it with Section 322;

WHEREAS, to implement the DMA 2000 planning requirements, the Federal Emergency Management Agency (FEMA) published Interim Final Rules (IFRs) in the Federal Register on February 26, 2002 and October 1, 2002;

WHEREAS, these Interim Final Rules established the mitigation planning requirements for local governments and required that in order to remain eligible to receive federal funding for both pre-disaster and post-disaster mitigation project funding, a local government must have a FEMA approved and locally adopted Local Hazard Mitigation Plan written in accordance with Section 322 of the Act;


WHEREAS, the Federal Emergency Management Agency has endorsed the Local Hazard Mitigation Plan as a partnership encouraging multi-hazard approaches to disaster resistance communities;

WHEREAS, the San Bernardino Valley Municipal Water District has established a partnership with the County of San Bernardino to include their specific risks, hazards, current and future mitigation measures and goals and objectives;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the San Bernardino Valley Municipal Water District as follows:

1. That said Valley District hereby adopts the Local Hazard Mitigation Plan

ADOPTED ON: April 17, 2018



 Susan Longville, President

ATTEST:



 Steve Copelan, Secretary

Planning Team and Promulgation Authority

This Hazard Mitigation Plan for San Bernardino Valley Municipal Water District was:

Prepared by:

Signature:  Date: 4/14/18

Name: Dan Borell

Title: GIS Coordinator

Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/12/18

Name: Brent Adair

Title: Project Manager

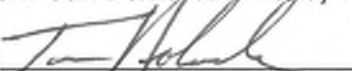
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/16/18

Name: Bob Tischer

Title: Deputy General Manager - Resources


Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4-12-18

Name: Tom Holcombe

Title: Operations Manager

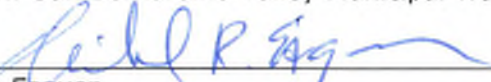
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/11/18

Name: Wen Huang

Title: Chief Engineer

Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/17/18

Name: Mike Esquer

Title: Project Manager

Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/11/18

Name: Aaron Jones


Title: Associate Engineer

Organization: San Bernardino Valley Municipal Water District

Approved by:

Signature:  Date: 4-17-18
Name: Junes Hayes
Title: Director, Division 1, Treasurer
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4-17-18
Name: Gil Navarro
Title: Director, Division 2, Vice President
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: _____
Name: Susan Longville
Title: Directory Division 3, President
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/17/18
Name: Mark Bulot
Title: Director Division 4
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4-17-18
Name: Steve Copelan
Title: Director, Division 5, Secretary
Organization: San Bernardino Valley Municipal Water District

Signature:  Date: 4/17/18
Name: Douglas Headrick
Title: General Manager
Organization: San Bernardino Valley Municipal Water District

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Section 1 – Introduction

1.1 San Bernardino Valley Municipal Water District

San Bernardino Valley Municipal Water District (Valley District) was formed in 1954 as a regional agency to plan a long-range water supply for the San Bernardino Valley. It imports water into its service area through participation in the State Water Project (SWP) and manages groundwater storage within its boundaries. Its enabling act includes a broad range of powers to provide water, as well as wastewater and storm water disposal, recreation, and fire protection services. Valley District covers about 353 square miles in southwestern San Bernardino County, about 60 miles east of Los Angeles, and has a population of about 660,000. It spans the eastern two-thirds of the San Bernardino Valley, the Crafton Hills, and a portion of the Yucaipa Valley and includes the cities and communities of San Bernardino, Colton, Loma Linda, Redlands, Rialto, Bloomington, Highland, East Highland, Mentone, Grand Terrace, and Yucaipa.

1.2 Purpose of the Plan

The intent of hazard mitigation is to reduce and/or eliminate loss of life and property. Hazard mitigation is defined by FEMA as “any action taken to reduce or eliminate the long-term risk to human life and property from natural hazards.” A “hazard” is defined by FEMA as “any event or condition with the potential to cause fatalities, injuries, property damage, infrastructure damage, agricultural loss, environmental damage, business interruption, or other loss.”

The purpose of the Hazard Mitigation Plan (HMP) is to demonstrate the plan for reducing and/or eliminating risk Valley District service area. The HMP process encourages communities to develop goals and projects that will reduce risk and build a more disaster resilient community by analyzing potential hazards.

Emergencies and disasters cause death or leave people injured or displaced, cause significant damage to our communities, businesses, public infrastructure and our environment, and cost tremendous amounts in terms of response and recovery dollars and economic loss.

Hazard mitigation reduces or eliminates losses of life and property. After disasters, repairs and reconstruction are often completed in such a way as to simply restore to pre-disaster conditions. Such efforts expedite a return to normalcy; however, the replication of pre-disaster conditions results in a cycle of damage, reconstruction, and repeated damage. Hazard mitigation ensures that such cycles are broken and that post-disaster repairs and reconstruction result in a reduction in hazard vulnerability.

While we cannot prevent disasters from happening, their effects can be reduced or eliminated through a well-organized public education and awareness effort, preparedness and mitigation. For those hazards which cannot be fully mitigated, the community must be prepared to provide efficient and effective response and recovery.

Also with an approved (and adopted) HMP, Valley District is eligible for federal disaster mitigation funds/grants (Hazard Mitigation Grant Program, Pre-Disaster Mitigation, and Flood Management Assistance) aimed to reduce and/or eliminate risk.

1.3 Authority

The Disaster Mitigation Act of 2000 (DMA 2000), Section 322 (a-d) requires that local governments, as a condition of receiving federal disaster mitigation funds, have a mitigation plan that describes the process for identifying hazards, risks and vulnerabilities, identify and prioritize mitigation actions, encourage the development of local mitigation and provide technical support for those efforts. This mitigation plan serves to meet those requirements.

1.4 What's New

1.4.1 Plan Update Background

As a DMA 2000 requirement, the HMP must be updated every five (5) years to remain in compliance with regulations and Federal mitigation grant conditions. Federal regulations require hazard mitigation plans to include a plan for monitoring, evaluating, and updating the hazard mitigation plan. An update provides an opportunity to reevaluate recommendations, monitor the impacts of actions that have been accomplished, and determine if there is a need to change the focus of mitigation strategies. DMA compliance is contingent on meeting the plan update requirement. A jurisdiction covered by a plan that has expired is not able to pursue funding under the Robert T. Stafford Act for which a current hazard mitigation plan is a prerequisite.

Valley District partnered with San Bernardino County and local governments to develop an update to their individual Hazard Mitigation Plans. San Bernardino County Fire OES received funds from FY15 HSGP to contract with Dynamic Planning + Science to assist local jurisdictions with planning process documentation, plan content, risk assessment data and DMA 2000 compliance reviews for jurisdictions wishing to receive assistance. The consultants provided participating local jurisdictions with content, tools, and QA/QC for individual plan updates. This planning effort represents the collective efforts of the county and participating jurisdictions, the general public, and other stakeholders.

1.4.2 Progress Update

Since the 2011 HMP was adopted, Valley District has completed/made progress with regard to the following mitigation projects:

- Clear Brush (Wildfire) – Annual program to clear brush adjacent to District facilities completed.
- Mill Creek Channel Improvements (Flood) – Temporary fix completed. Working on long-term improvements as part of the Mill Creek Pipeline Replacement Project.

1.5 Community Profile

1.5.1 Physical Setting

The District is a 352 square mile jurisdiction located in southwest San Bernardino County, CA. It is roughly bounded on the north and east by the San Bernardino Mountains, the south by the San Bernardino-Riverside County line, and the west by the Inland Empire Utilities Agency. Elevations within the District range from 827.5 to 6,635.5 feet above mean sea level. The boundary is shown against the regional topography in figure 1-1.

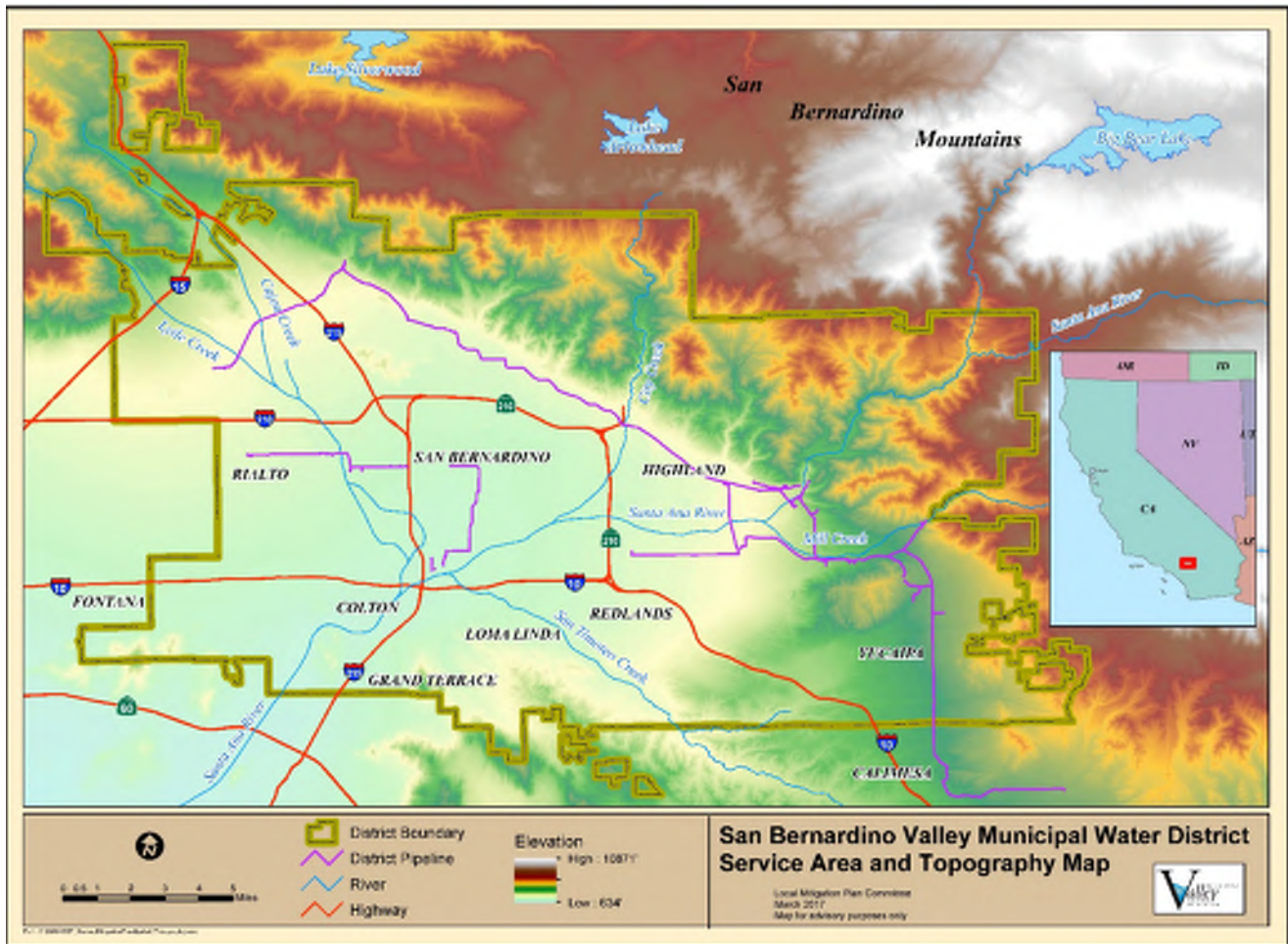


Figure 1-1. The District’s boundary and topography plus (inset) its geographic location within the State of California.

The entire jurisdiction is within the Santa Ana River watershed. The major streams include the Santa Ana River and two of its tributaries: Mill Creek and Lytle Creek. Flows along many areas of these streams are typically low or intermittent. These are shown in figure 1-2. More important to the areas water resources are the groundwater supplies stored within the San Bernardino Basin Area (figure 1-2). This 112 square mile basin has an estimated capacity of 5.5 million acre-feet¹ of water. Approximately 800,000 residents in the East San Bernardino Valley depend upon this underground reservoir as their primary water source. Due to the huge downstream demands placed on this local resource, the basin was adjudicated (in gross) in 1969.

¹ An acre-foot of water is 326,000 gallons.

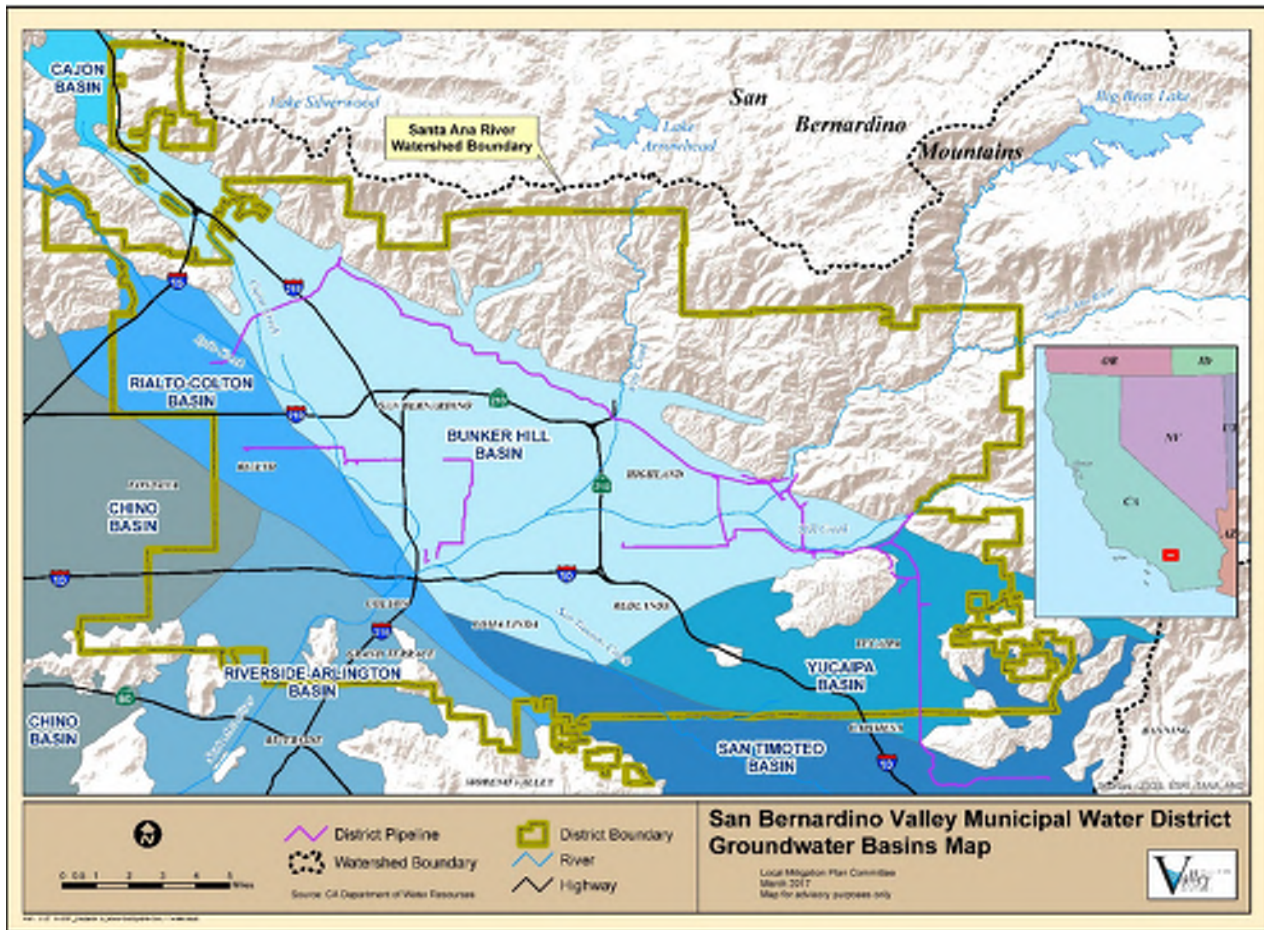


Figure 1-2. The major rivers, groundwater basins within the Santa Ana River watershed.

1.5.2 History

The San Bernardino Valley Municipal Water District (District or SBVMWD) was incorporated on February 17, 1954 as a provider of supplementary water to the region. It is overseen by a five member Board of Directors.

The primary water source of the District is from the California State Water Project (SWP). The District is one of 29 State Water Contractors who are part of the SWP. The District's ultimate annual entitlement for SWP water is the fifth largest at 102,600 acre-feet. There are approximately 60 miles of 12" to 78" diameter pipeline in the delivery system. The District has 35 delivery points which supply both native and SWP water for direct delivery or groundwater recharge to areas within the District's boundary.

In addition the District is also responsible for the management of the groundwater basins of the region. Some of the basins are regulated by court judgments that are enforced by a court appointed Watermaster.

1.5.3 Climate

"A warm, dry Mediterranean climate prevails over Southern California - inland it is generally hot in the summer and mild in the winter. During the summer, valley temperatures can soar above 100 degrees while remaining pleasant in the mountains. Most of the precipitation comes as rain during the winter months," although "higher elevations experience snow and freezing temperatures" (<http://areas.wildernet.com>).

"Climate in the San Bernardino area is characterized by the relatively dry, warm summers and cool,

wet winters. Temperatures range from daytime highs of about 80°F in summer to night-time lows of about 40°F in winter. Precipitation is nearly always in the form of rain in the lower elevations and mostly in the form of snow above an altitude of about 6,000 ft. in the surrounding mountains. Mean annual precipitation ranges from 12 inches in the Badlands [on the District's southern border], to 25 inches at the base of the San Bernardino and San Gabriel Mountains, to more than 35 inches along the crest of the mountains" (USGS: Danskin, Wesley R., Linda R. Woolfenden, and Kelly R. McPherson, "Hydrology, Description of Computer Models, and Evaluation of Selected Water-Management Alternatives in the San Bernardino Area, California." 1997).

1.5.4 Demographics

Currently, the population of the District is approximately 695,000 people and 230,000 households (source: U.S. Census). The population is focused in the southwest two-thirds in the cities of San Bernardino, Redlands, Yucaipa, Highland, Rialto, Colton, Grand Terrace, Loma Linda, and part of Fontana. The area is considered the eastern most "suburb" of Los Angeles sixty miles due west. The City of San Bernardino is the county seat of the County of San Bernardino, the largest county in the nation.

1.5.5 Existing Land Use

Although District encompasses several cities and parts of two Counties, the District does not directly govern land use within its territory. The area industry includes major agricultural production of citrus and vegetables in the Redlands area, a major medical center in Loma Linda, key railroad transfer facilities in Colton, Rialto, and San Bernardino, a major petroleum products terminal in Colton, county government in San Bernardino, software development in Redlands, and much of the region is involved in cement production. San Bernardino was home to a large Air Force Base until 1994. San Bernardino is a campus to the California State University system. The transportation industry heavily utilizes the intersection of the I-10 and I-215 (-15) and their corridors. An Indian casino is located in the Highland area. Historically the area was home to corporations producing rocket propellants and fireworks. Warehousing has emerged in both San Bernardino and Redlands. There is also a significant amount of residential land use, including recent construction in bedroom communities such as Highland and Yucaipa. Although the steel industry and agriculture are in rapid decline, still factor into the local economy (figure 1-3).

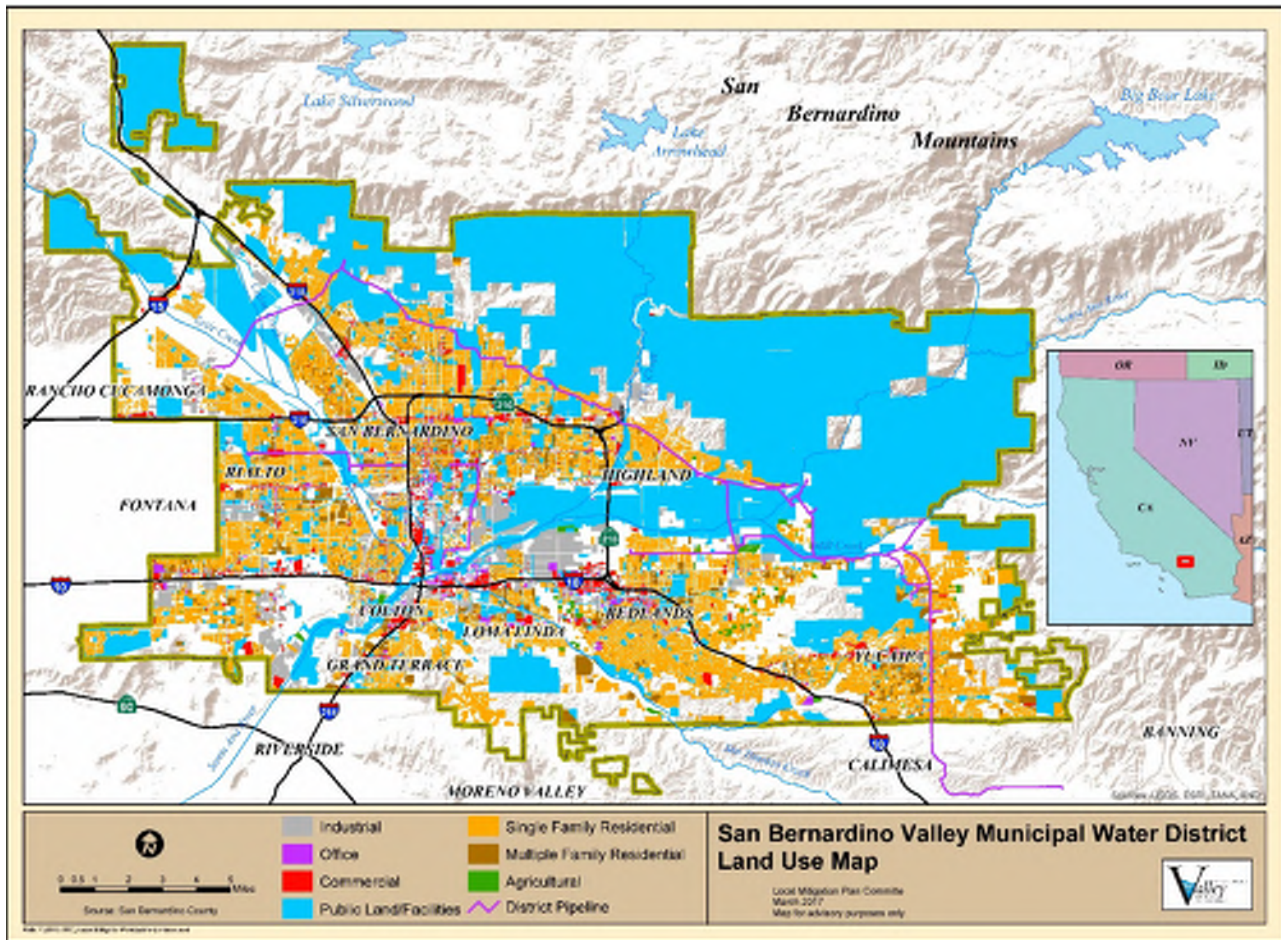


Figure 1-3. Regional Land Use

1.5.6 Development Trends

Though the District provides water required for development, the District does not directly influence development. Economic development has rebounded since the last HMP update and there has been increase in development during the last 5 years. New commercial developments, warehouses and residential housing tracts are being constructed in the region. However, this recent development will not cause District to become more vulnerable to hazards as the majority of developable land within the District had already been built upon (Figure 1-4).

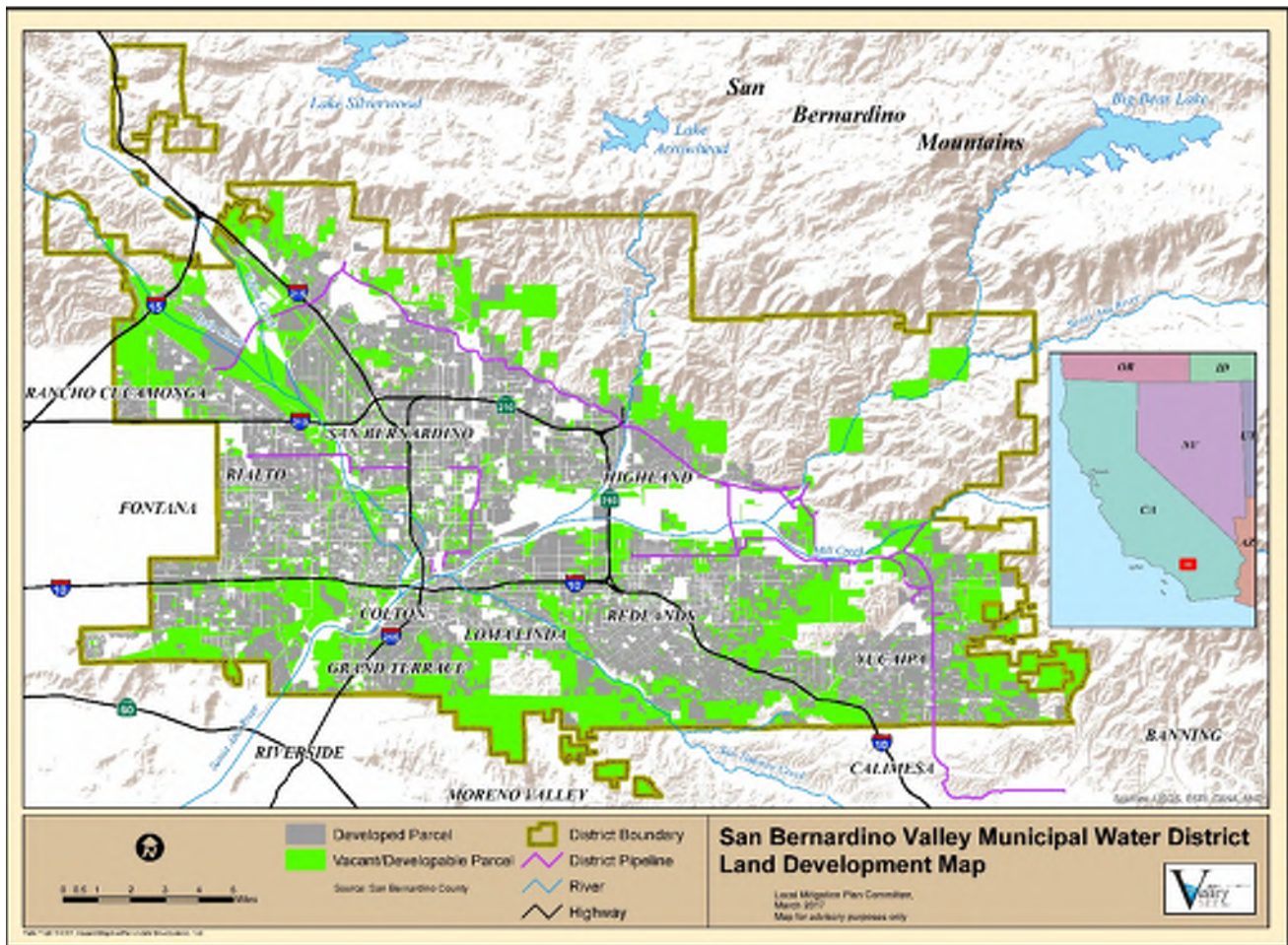


Figure 1-4. Developed and vacant developable parcels in the region.

As part of the Phase I East Branch Extension Improvements Project, the District and the California Department of Water Resources have increased the operating storage capacity of the Crafton Hills Reservoir from 85 acre-feet to 225 acre-feet to enhance the system’s operational flexibility and reliability and reduce on-peak energy demands. The recently completed project also included construction of a half-mile pipeline connecting the East Branch Extension pipeline with the Yucaipa pipeline.

Additionally, the District has recently finished construction of the East Branch Extension Phase II. The project consists of approximately three miles of large diameter pipeline to convey SWP water from Valley District’s Foothill Pipeline near Cone Camp Road in the City of Highland to the new Citrus Reservoir located south of the Santa Ana River Wash in the Mentone Area. The new Citrus Pump Station and approximately three miles of large diameter pipeline will convey water from the Citrus Reservoir to the existing Crafton Hills Pump Station. The improvements to the Phase I Project and construction of the Phase II Project will allow for Valley District’s delivery of additional SWP water to the Yucaipa Valley area and San Gorgonio Pass Water Agency. The Phase II project also provides redundancy to a portion of the delivery system.

Section 2 – Plan Adoption

2.1 Adoption by Local Governing Body

<i>IFR</i> §201.6(c)(5):	[The local hazard mitigation plan shall include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council) ...
<i>Explanation:</i>	Adoption by the local governing body demonstrates the jurisdiction's commitment to fulfilling the mitigation goals and objectives outlined in the plan. Adoption legitimizes the plan and authorizes responsible agencies to execute their responsibilities. The plan must include a copy of the resolution adopting the plan.

The San Bernardino Valley Municipal Water District understands the object of a District's Local Hazard Mitigation Plan is "to save lives, preserve property and protect the environment, during times of Disaster." This Hazard Mitigation Plan (HMP) has been adopted by the Board of Directors on and requests approval of the Plan. See meeting minutes in Appendix A.

2.2 Promulgation Authority

This Hazard Mitigation Plan was reviewed and approved by the following Promulgation Authorities:

Susan Longville

Description of Involvement: Mrs. Longville serves as the SBVMWD Board President and is an elected official representing Division 3.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9200

Gil Navarro

Description of Involvement: Mr. Navarro serves as the SBVMWD Board Vice-President and is an elected official representing Division 2.

Contact Information:

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380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9200

Mark Bulot

Description of Involvement: Mr. Bulot serves as a SBVMWD Board Member and is an elected official representing Division 4.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9200

Steve Copelan

Description of Involvement: Mr. Copelan serves as the SBVMWD Board Secretary and is an elected official representing Division 5.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9200

Junes Hayes

Description of Involvement: Ms. Hayes serves as the SBVMWD Board Treasurer and is an elected official representing Division 1.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9200

Douglas Headrick

Description of Involvement: Mr. Headrick is the SBVMWD General Manager.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9226

2.3 Primary Point of Contact

The Point of Contact for information regarding this plan is:

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GIS Coordinator
San Bernardino Valley Municipal Water District
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Brent Adair

Project Manager
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92412
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brenta@sbvmwd.com

Section 3 - Planning Process

<p><i>IFR</i> §201.6(c)(1):</p>	<p>[The plan must document] the planning process used to develop the plan, including how it was prepared, who was involved in the process and how the public was involved.</p>
-------------------------------------	--

Explanation:

A description of the planning process could include how the plan was prepared, who was involved in the planning process, and the timeframe for preparing the plan. The plan should document how the planning team was formed and the number and outcomes of the meetings the planning team held. Ideally, the local mitigation planning team is composed of local, State, and federal agency representatives, as well as community representatives, local business leaders, and educators. In addition to the core team preparing the plan, it is also important to indicate how the public (residents, businesses, and other interested parties) participated, including what means (e.g., webpages, storefronts, toll free phone lines, etc.) were made available to those who could not attend public forums to voice concerns or provide input during the planning process.

3.1 Preparing for the Plan

Multi-Jurisdictional Hazard Mitigation Planning is a process State, Tribal, and local governments use to identify risks and vulnerabilities associated with natural disasters, and to develop long-term strategies for protecting people and property from future hazard events.

Planning creates a way to solicit and consider input from diverse interests. Involving stakeholders is essential to building community-wide support for the plan. In addition to emergency managers, the planning process involves other government agencies (e.g., zoning, floodplain management, public works, community, and economic development), businesses, civic groups, environmental groups, and schools.

The local planning team is comprised of the District’s emergency planning committee. In addition, Valley District partnered with Cindy Serrano and Miles Wagner of San Bernardino County Fire OES; Ethan Mobley, Brian Mobley and Tammy Kulpa of Dynamic Planning + Science to update the HMP. The planning team reviewed the existing 2011 HMP to determine which parts of the plan needed to be updated. After review, the planning team identified any information relating to the hazard and mitigation programs that needed to be added or modified. Once the information was collected, the public outreach was initiated. Table 3-1 shows the timeline for preparing the Draft HMP for the District, discussed further in following sections.

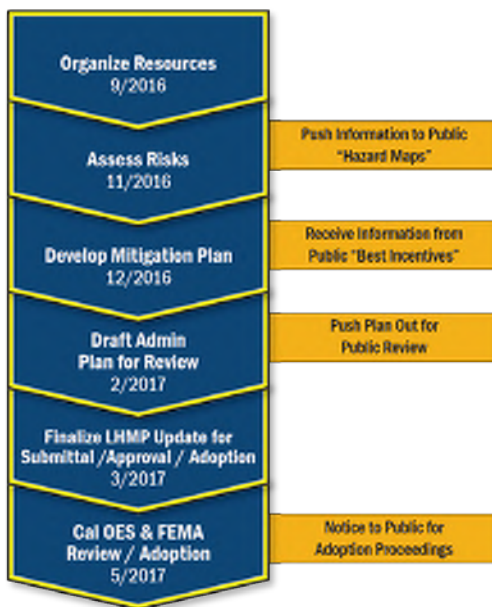


Figure 3-1. Draft Hazard Mitigation Plan

3.1.1 Planning Team

This Hazard Mitigation Plan was compiled and authored by members of the following Planning Team:

Dan Borell
GIS Coordinator

Description of Involvement: Planning team lead, point of contact, GIS/mapping coordination, documentation, Emergency Planning Committee, part of previous HMP effort and attends Stakeholders Group meetings.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9225
danb@sبvmwd.com

Brent Adair
Project Manager

Description of Involvement: Planning team lead, Plan review, emergency planning, mitigation strategies, Emergency Planning Committee and attends Stakeholders Group meetings.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9257
brenta@sبvmwd.com

Tom Holcombe
Operations Manager

Description of Involvement: Plan review, emergency planning, mitigation strategies, Emergency Planning Committee.

Contact Information:

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380 East Vanderbilt Way, San Bernardino, CA 92408
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tomh@sبvmwd.com

Mike Esquer
Project Manager

Description of Involvement: Plan review, emergency planning, mitigation strategies, Emergency Planning Committee, part of previous HMP effort.

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380 East Vanderbilt Way, San Bernardino, CA 92408
(909) 387-9253
mikee@sبvmwd.com

Wen Huang
Chief Engineer

Description of Involvement: Plan review, emergency planning, mitigation strategies, Emergency Planning Committee lead.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9250
samf@sbumwd.com

Bob Tincher
Deputy General Manager - Resources

Description of Involvement: Plan review, SBVMWD Board Liaison, emergency planning, mitigation strategies, Emergency Planning Committee, part of previous HMP effort.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
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Aaron Jones
Assistant Engineer

Description of Involvement: Plan review, emergency planning, mitigation strategies, Emergency Planning Committee.

Contact Information:

San Bernardino Valley Municipal Water District
380 East Vanderbilt Way, San Bernardino, CA 92408
909-387-9215
aaronj@sbumwd.com

SAN BERNARDINO COUNTY TEAM:

Ethan Mobley
Project Manager

Description of Involvement: Ethan coordinates and presents at Stakeholders Group meetings, drafts agenda for all Stake Holders Group meetings and provides input related to the development of Valley District's Hazard Mitigation Plan.

Contact Information:

Dynamic Planning + Science
19235 HWY 550, Montrose, CO 81403
(970) 323-4331
ethan@dynamicplanning.co

Brian Greer
Data Visualization Manager/GIS Analyst

Description of Involvement: Brian attends Stakeholders Group meetings and provides input related to the development of Valley District's Hazard Mitigation Plan.

Contact Information:
Dynamic Planning + Science
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(510) 253-0054
brian@dynamicplanning.co

Tammy Kulpa
Planning Assistant

Description of Involvement: Tammy attends Stakeholders Group meetings and provides input related to the development of Valley District's Hazard Mitigation Plan.

Contact Information:
Dynamic Planning + Science
19235 HWY 550, Montrose, CO 81403
tammy@dynamicplanning.co

Miles Wagner
Emergency Services Officer

Description of Involvement: Miles is the Project Manager for the HMP Update and attends the Stakeholders Group meetings. Miles provides input related to the development of Valley District's Hazard Mitigation Plan.

Contact Information:
County of San Bernardino Fire Department, Office of Emergency Services
1743 Miro Way, Rialto, CA 92376
(909) 356-3934
miles.wagner@oes.sbcounty.gov

Cindy Serrano
Assistant Emergency Services Manager

Description of Involvement: Cindy attends the Stakeholders Group meetings and provides input related to the development of Valley District's Hazard Mitigation Plan.

Contact Information:
County of San Bernardino Fire Department, Office of Emergency Services
1743 Miro Way, Rialto, CA 92376
(909) 356-3963
cindy.serrano@oes.sbcounty.gov

The employees of the District on the Planning Team comprised the SBVMWD Emergency Planning Committee. The Emergency Planning Committee held several meetings to discuss hazard identification, planning process and public involvement, mitigation strategy and plan maintenance.

The associated files listed below with each "meeting" item can be found in **Appendix A**.

SBVMWD Emergency Planning Committee
8/24/2016

Description: See attached agenda

Location:
SBVMWD, Upstairs Conference Room
380 East Vanderbilt Way

San Bernardino, CA

File Title: [Valley District Emergency Planning Committee Meeting](#)

File Description: Agenda for August 24, 2016 meeting

**SBVMWD Emergency Planning Committee
10/12/2016**

Description: See attached agenda

Location:

SBVMWD, Upstairs Conference Room
380 East Vanderbilt Way
San Bernardino, CA

File Title: [Valley District Emergency Planning Committee Meeting](#)

File Description: Agenda for October 12, 2016 meeting

**SBVMWD Emergency Planning Committee
1/12/2017**

Description: Discussion and internal review of Draft Hazard Mitigation Plan, specifically infrastructure list and facility replacement costs.

Location:

SBVMWD, Upstairs Conference Room
380 East Vanderbilt Way
San Bernardino, CA

File Title: [Valley District Emergency Planning Committee Meeting](#)

File Description: Agenda for January 12, 2016 meeting

**SBVMWD Emergency Planning Committee
1/25/2017**

Description: Discussion and internal review of hazard mitigation projects.

Location:

SBVMWD, Upstairs Conference Room
380 East Vanderbilt Way
San Bernardino, CA

No associated files

**SBVMWD HMP Update Meeting
2/14/2017**

Description: Discussion and internal review of critical facilities and replacement costs.

Location:

SBVMWD, Upstairs Conference Room
380 East Vanderbilt Way
San Bernardino, CA

No associated files

3.2 Coordination with Other Jurisdictions, Agencies, and Organizations

Interaction with other local jurisdictions and districts proved valuable in the development of the mitigation projects for the plan. The agencies within the County of San Bernardino met to collectively discuss necessary decisions for the HMP and ideas to streamline our resources. San Bernardino County Fire Office of Emergency Services (OES) hosted the meetings at their agency headquarters and organized the process for the group.

The San Bernardino County Fire Department Office of Emergency Services (OES) coordinated the update process of the 33 local public agency HMPs. The 33 participants include 18 incorporated cities and towns, 14 districts, and the unincorporated County of San Bernardino.

Municipalities

Town of Apple Valley – Joseph Ramos, (760) 240-7000 ext. 7890
City of Barstow – Jamie Williams, (760) 256-2254
City of Chino – Christin A. Wolff, (909) 334-3084
City of Chino Hills – Jonathon Marshall, (909) 364-2711
City of Colton – Tim McHargue, (909) 370-5102
City of Fontana – Kevin Goltara, (909) 350-7740
City of Grand Terrace – Haide Aguirre, (909) 824-6621, ext. 247
City of Hesperia – Rachel Molina, (760) 947-1020
City of Loma Linda – Shannon Kendall, (909) 799-2860
City of Montclair – Angelic Bird, (909) 447-3540
City of Ontario – Michael R. Gregory, (909) 395-2545
City of Rancho Cucamonga – Breanna Medina, (909) 477-2700
City of Redlands – Fay Glass (909) 335-4705
City of Rialto – Frank Bekker (909) 820-2511
City of San Bernardino – Eric Fyvie (909) 384-5742
City of Upland – Michael A. Ramirez, (909) 931-4100
City of Victorville – Dana Wellborn, (760) 955-5232
Town of Yucca Valley – Tom Marshall (760) 228-6380

College Districts

San Bernardino Community College District – Pierre Galvez, (909) 384-4491

School Districts

Apple Valley Unified School District – Janet Gould (760) 247-8001, ext. 1407
Chino Valley Unified School District – (909) 628-1201
San Bernardino County Superintendent of Schools – Norma Spencer (909) 888-3228
Snowline Joint Unified School District – Robert Chacon (760) 868-5817, ext. 10151

Special Districts

Inland Empire Utilities Agency – Claudia Neighbors, (909) 993-1711
Newberry Community Services District – (760) 257-3613
Omnitrans – Mark Crosby, (909) 379-7117
Santa Ana Watershed Project Authority – Rich Haller (951) 324-8680

Water Districts

Crestline Village Water District – Alan E. Clanin (909) 388-1727
East Valley Water District – Cecilia Contreras (909) 885-4900
Monte Vista Water District – Jonathon R. Dizon (909) 267-2177
San Bernardino Valley Municipal Water District – Daniel Borell (909) 387-9225
Yucaipa Valley Water District – Mike Kostecky (909) 790-9208

San Bernardino County Fire OES received funds from FY15 HSGP to contract with Dynamic Planning + Science to assist local jurisdictions with planning process documentation, plan content, risk assessment data and DMA 2000 compliance reviews for jurisdictions wishing to receive assistance. The consultant provided participating local jurisdictions with content, tools, and QA/QC for individual plan updates. This planning effort represents the collective efforts of the county and participating jurisdictions, the general public, and other stakeholders.

The District participated in stakeholder meetings to coordinate and receive support for their HMP. The support included receiving technical expertise, resource material and tools, not only to expedite the HMP update process, but also to ensure that the updates are in compliance with federal requirements of the program. The tools, resource material, and other project related information were maintained on a project portal (<http://mitigatehazards.com/bdc>) to ensure the same information is available to all participants.

The associated files listed below with each "meeting" item can be found in **Appendix A**.

Stakeholder Kick-Off Meeting #1

6/23/2016

Description: see attached agenda

Location:

San Bernardino City Unified School District
777 N. F Street
San Bernardino, CA

File Title: [HMP Stakeholder Kick-Off Meeting](#)

File Description: Meeting agenda for June 23, 2016

Stakeholder Update Meeting #2

10/26/2016

Description: See attached agenda

Location:

San Bernardino County Fire Department, OES Training Room
1743 Miro Way
Rialto, CA

File Title: [HMP Stakeholder Meeting](#)

File Description: Meeting agenda for October 26, 2016

Stakeholder Update Meeting #3

12/15/2016

Description: See attached agenda

Location:

Virtual/Conference Call

File Title: [HMP Stakeholder Meeting](#)

File Description: Meeting agenda for December 15, 2016

Stakeholder Update Meeting #4

2/14/2017

Description: See attached agenda

Location:

Virtual/Conference Call

File Title: [HMP Stakeholder Meeting](#)

File Description: Meeting agenda for February 14, 2017

**Stakeholder Update Meeting #5
3/28/2017**

Description: See attached agenda

Location:

San Bernardino County Fire Department, OES Training Room
1743 Miro Way
Rialto, CA

File Title: [HMP Stakeholder Meeting](#)

File Description: Meeting agenda for March 28, 2017

3.3 Public Involvement/Outreach

The District found it effective and expedient to follow their standard plan development and public review process rather than devise a new approach. The Board of Directors typically discusses items at workshops and then forwards those items to a Board meeting for final consideration. So, the public has a chance to learn about items at both of these meetings. The Board Workshop and Meeting will be advertized ahead of time once the HMP is approved. Both are open to the public and the public may ask questions at these meetings. This method was used for the HMP update, as was done for the 2011 HMP.

Although an effort was made to solicit public input during the planning process, the District did not receive any comments. Citizens could access the District's website (sbvmwd.com) to get updates or provide input to the HMP Update. Public involvement consisted of the following items:

The associated files listed below can be found in **Appendix A**.

**Public Announcement of Hazard Mitigation Plan Update (Website)
7/16/2016**

Description: An announcement was posted on the District's web site ([Hazard Mitigation Plan Update Public Announcement](#)) to inform the public that the District is updating its 333 Hazard Mitigation Plan. The announcement included a brief description, additional disaster preparedness resources and contact information.

Location:

<http://www.sbvmwd.com>
380 East Vanderbilt Way
San Bernardino, CA 92408

File Title: [HMP Update Webpage](#)

File Description: Screenshot of the Hazard Mitigation Plan Update webpage.

3.4 Assess the Hazard

This HMP has been developed through an extensive review of available information on hazards, the District's 2011 Hazard Mitigation Plan and 2016 Emergency Plan, engineering drawings, aerial photographs, GIS data and available geotechnical and geologic data both from the District and outside sources (for example, California Geological Survey for detailed fault investigation reports).

The assessment of the various hazards was completed by the planning team for the District because

they had decades of personal experience at working for the District and knew the history of past hazardous events. The local planning team evaluated any newly identified hazards that have been determined to pose a threat. The existing hazards from the 2011 HMP were reviewed and if new occurrences of existing hazards were available, they were incorporated into this section.

Certain members of the planning team were assigned various hazards to describe occurrences of the hazards not included in the previously approved plan, and research new occurrences of existing hazards. The research also included historical records, or hazard data related to profiling hazards, such as NFIP maps or studies, HAZUS studies, or reports from other Federal or State agencies that describe location, extent, probability, or previous occurrences of hazards. Once the hazards were identified, they were prioritized using a matrix containing high/medium/low impact and probability categories.

Because groundwater levels are still at historic lows, liquefaction (removed from the high risk hazards list during 2011 update) is not part of the 2018 hazards list. Lightning is low magnitude and short duration hazard and was determined to not be a significant hazard so it was not included in the 2018 update.

3.5 Set Goals

The process of identifying mitigation goals began with a review and validation of the Goals and Objectives in the District's 2011 HMP. Using the 2011 as the basis, the District's planning team completed an assessment/discussion of whether each of the mitigation goals was still valid. This discussion also led to the opportunity to identify new goals and to determine asset vulnerability. The goals for the HMP update were set by the planning team for the District because the members of the team knew the goals of the District with respect to its mission.

At one of our planning team meetings, we brainstormed to determine the best mitigation goals to reduce or avoid long and short term vulnerabilities to the identified hazards. First, we reviewed the 2011 HMP goals and discussed the changes in our system and responsibilities since the previous plan was approved. Then we decided whether those goals had been met or if they were still consistent with the District's current conditions.

3.6 Review and Propose Mitigation Measures

The process of identifying mitigation measures began with a review and validation of previous mitigation measures in the District's 2011 HMP. Using the 2011 as the basis, the District's planning team completed an assessment/discussion of whether each of the mitigation measures was still valid. This discussion also led to the opportunity to identify new mitigation measures.

The District's planning team proposed and reviewed the mitigation measures because they knew the District's mission. During one of our planning team meetings, we reviewed each of the projects from the 2011 HMP and discussed the status of each project and the reasons for why they had or had not been implemented and if we wanted to include them on the list for the HMP update. We removed the Yucaipa Lakes Dam Improvements Project because it was determined that if there was dam failure, the flow would stay within the downstream drainage channel. Three more projects were taken off the list because they were deemed to be of low priority/importance (See Table 6-1).

The planning team identified and analyzed a range of specific mitigation actions and projects to be considered to reduce the effects of each hazard. The planning team also prioritized mitigation projects and identified how each should be implemented. Consideration was given to the social, technical, administrative, political, legal, economic and environmental impacts of the proposed projects.

3.7 Draft the Hazard Mitigation Plan

The District's Emergency Planning Committee (EPC) reviewed the 2011 HMP and drafted the 2018 HMP. The EPC is comprised of the in-house members of the Planning Team. The San Bernardino County Fire Department, Office of Emergency Services reviewed the Draft HMP before the HMP was finalized. The Draft HMP was also made available to the public via the District's website.

The updated HMP will be reviewed against a FEMA-designed Crosswalk. The Crosswalk links the federal requirement, the section in the HMP where the information can be found, and a rating as to the level of compliance with the regulation.

3.8 Adopt the Hazard Mitigation Plan

After the Draft 2018 HMP was finalized, the Plan was submitted to CalEMA for approval, then submitted to FEMA for approval pending adoption.

The 2018 HMP was presented to the District's Board and the Board members voted to adopt the plan as written. The public was invited to attend this District Board meeting, with notifications of the meeting distributed before the meeting.

Section 4 - Risk Assessment

The risk assessment is the process of measuring the potential impact to life, property and economic impacts resulting from natural hazards. The intent of the Risk Assessment is to identify, as much as practicable given existing/available data, the qualitative and quantitative vulnerabilities of a community. The results of the risk assessment allow for a better understanding of the impacts of natural hazards to the community and provides a foundation in which to develop and prioritize mitigation actions to reduce damage from natural disasters through increased preparedness and response times and the better allocation of resources to areas of greatest vulnerability.

This Risk Assessment Section evaluates the potential loss from a hazard event by assessing the vulnerability of buildings, infrastructure, and people. It identifies the characteristics and potential consequences of hazards, how much of the unincorporated areas of the County could be affected by a hazard, and the impact on unincorporated County area assets. The Risk Assessment approach consists of three (3) components:

- Hazard Identification – Identification and screening of hazards (Section 4.1)
- Hazard Profiles – Review of historic occurrences and assessment of the potential for future events (Section 4.2)
- Vulnerability Assessment – Determination of potential losses or impacts to buildings, infrastructure and population (Section 4.3)

4.1 Hazard Identification

<i>IFR</i> <i>§201.6(c)(2)(i):</i>	[The risk assessment shall include a] description of the type ... of all] natural hazards that can affect the jurisdiction ...
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<i>Explanation:</i>	The local risk assessment should identify what hazards are likely to affect the area. The plan should describe the sources used to identify hazards, noting any data limitations, and provide an explanation for eliminating any hazards from consideration. The process for identifying hazards could involve one or more of the following: - Reviewing reports, plans, flood ordinances and land use regulations among others; - Talking to experts from federal, State, and local agencies and universities; - Searching the Internet and newspapers; and - Interviewing long-time residents.
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4.1.1 Hazard Screening Criteria

The natural hazard identification process began with a simple brainstorming exercise among District staff. This involved not only the obvious hazards like the wildland fires and earthquakes that frequent the region, but also involved a review of individual job processes, reviewing the actions taken after the common events that cause even temporary interruption in District services. This exercise included elements of staff familiarity with regional publications, operations staff records and knowledge of past actions, GIS databases, and District library holdings. The list generated includes wildland fires, lightning strikes, earthquake events, flooding (flash and debris flow, traditional surface flooding, and groundwater inundation), dam failure, and drought. The identified hazards will be individually profiled as subtopics within the next section.

The District understands that natural hazards may not be independent of each other. Droughts can lead to insect infestations that increases vegetation mortality which increases the likelihood and sustainability of wildland fire; wet years raise water tables which provide the final component for liquefaction during an earthquake event in the sandy reaches of the basin; earthquakes of sufficient magnitude on the San Andreas will cause our pipelines to rupture causing localized flooding. The District has and continues to explore its role in mitigating the causes and/or effects along the chain of hazards in order "to save lives, preserve property and protect the environment, during times of Disaster." Additional technical or man-made hazards are known to exist but are not covered within this assessment. They have been defined within the "Vulnerability Assessment for the San Bernardino Valley Municipal Water District". This assessment was mandated under the Bioterrorism Act of 2002 (PL 107-188) and is held in confidentiality by the District (Charlie Howell, Security By Design, 2003).

4.1.2 Hazard Prioritization

For this 2018 HMP Update, the District is utilizing a non-numerical ranking system for the hazard screening process. This process consists of generating a non-numerical ranking rating for the probability and impact of each screened hazard. For each of the District's screened hazards,

- For **Probability**, the rating options are: Highly Likely (High), Possible (Medium), or Unlikely (Low)
- For **Impact**, the rating options are: Critical (High), Limited (Medium), Negligible (Low)

Table 4-1 is the screening assessment matrix used for the District's hazards. The hazards have been placed in the appropriate/corresponding box/cell of the corresponding "Hazard Matrix" based on the planning team's experience.

		<i>Impact</i>		
		High	Medium	Low
<i>Probability</i>	High	Earthquake	Flooding Wildfire Drought	Climate Change
	Medium	Landslide		
	Low			Liquefaction

Table 4-1. Hazard Assessment Screening Matrix

Using the hazard screening criteria and assessment matrix discussed in the previous two sections, the District's planning team prioritized the hazards identified. Table 4-2 presents the summary results of prioritizing each hazard based on the level of risk. The "red shaded" boxes are the top tier ranked hazards and the "yellow shaded" boxes next tier ranked hazards and the white boxes are the lowest ranked. As can be seen from the table, the hazards in the "red" boxes are the District's priority (or high profile) hazards, while the hazards in the "yellow" boxes are less critical, however, are important hazards for the District. As mentioned previously, liquefaction is currently not a high risk hazard.

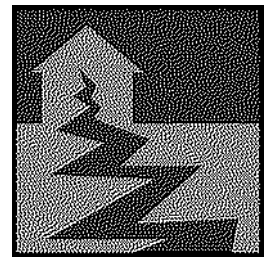
	<i>Impact</i>			
		High	Medium	Low
<i>Probability</i>	High	Earthquake	Flooding Wildfire Drought	Climate Change
	Medium	Landslide		
	Low			Liquefaction

Table 4-2. Hazard Prioritization Matrix

4.2 Hazard Profiles

4.3 Earthquake Hazard Profile

An earthquake is both the sudden slip on an active fault and the resulting shaking and radiated seismic energy caused by the slip (USGS 2009). The majority of major active faults in the Valley District area are strike-slip faults. For this type of fault, during an earthquake event, one side of a fault line slides past the other. The rupture from this type of fault extends almost vertically into the ground.



Earthquakes are a significant concern to Valley District. The area around Valley District is seismically active since it is situated on the boundary between two tectonic plates. Describe seismic activity and faults for the region. Earthquakes can cause serious structural damage to buildings, overlying aqueducts, transportation facilities, utilities, and can lead to loss of life. In addition, earthquakes can cause collateral emergencies including dam and levee failures, fires, and landslides. Seismic shaking is by far the single greatest cause of damage from an earthquake in Vacaville, followed by liquefaction.

Liquefaction generally occurs in the top 50 feet of soil when loosely packed sandy or silty materials saturated with water are shaken hard enough to lose strength and stiffness. Liquefied soils behave like a liquid and are responsible for tremendous damage in an earthquake. For example, it can cause buildings to collapse, pipes to leak, and roads to buckle.

4.3.1 Regulatory Environment

Numerous building and zoning codes exist at a state and local level to decrease the impact of an earthquake event and resulting liquefaction on residents and infrastructure. Building and zoning codes include the Alquist-Priolo Earthquake Fault Zoning Act of 1972, Seismic Hazards Mapping Act of 1990, 2013 California Standards Building Code (CSBC), and local General Plan documents. To protect lives and infrastructure, the following building and zoning codes are used.

4.3.1.1 State

The 1971 San Fernando Earthquake resulted in the destruction of numerous structures built across its path. This led to passage of the Alquist-Priolo Earthquake Fault Zoning Act. This Act prohibits the construction of buildings for human occupancy across active faults in the State of California. Similarly, extensive damage caused by ground failures during the 1989 Loma Prieta Earthquake focused attention on decreasing

the impacts of landslides and liquefaction. This led to the creation of the Seismic Hazards Mapping Act. This Act increases construction standards at locations where ground failures are probable during earthquakes. Active faults in San Bernardino County have been included under the Alquist-Priolo Geologic Hazards Zones Act and Seismic Hazards Mapping Act.

4.3.2 Past Occurrences

Table 4-3 shows earthquakes greater than Magnitude 4.0 that have been felt within the San Bernardino County area in the last five years.

Table 4-3: Earthquakes: 2010-2017 San Bernardino County

Date	Name
9/14/2011	Calimesa 4.1
1/15/2014	Fontana 4.4
7/5/2014	Running Springs 4.6
3/29/2014	Brea 5.1
7/25/2015	Fontana 4.2
9/16/15	Big Bear Lake 4.0
12/30/2015	Muscoy 4.4
1/6/2016	Banning 4.4

There are hundreds more small ($M < 4.0$) earthquakes that have occurred within San Bernardino County during this same time frame. Those with a magnitude of below 4.0 are not listed.

4.3.3 Location/Geographic Extent

Earthquakes events and their potential are extremely prominent with in the District as both the San Andreas and San Jacinto Faults traverse the District. The Cucamonga Fault system as well as many smaller faults also can be found within the District. Figure 4-1 shows these faults and shaking as provided by the California Geological Survey.

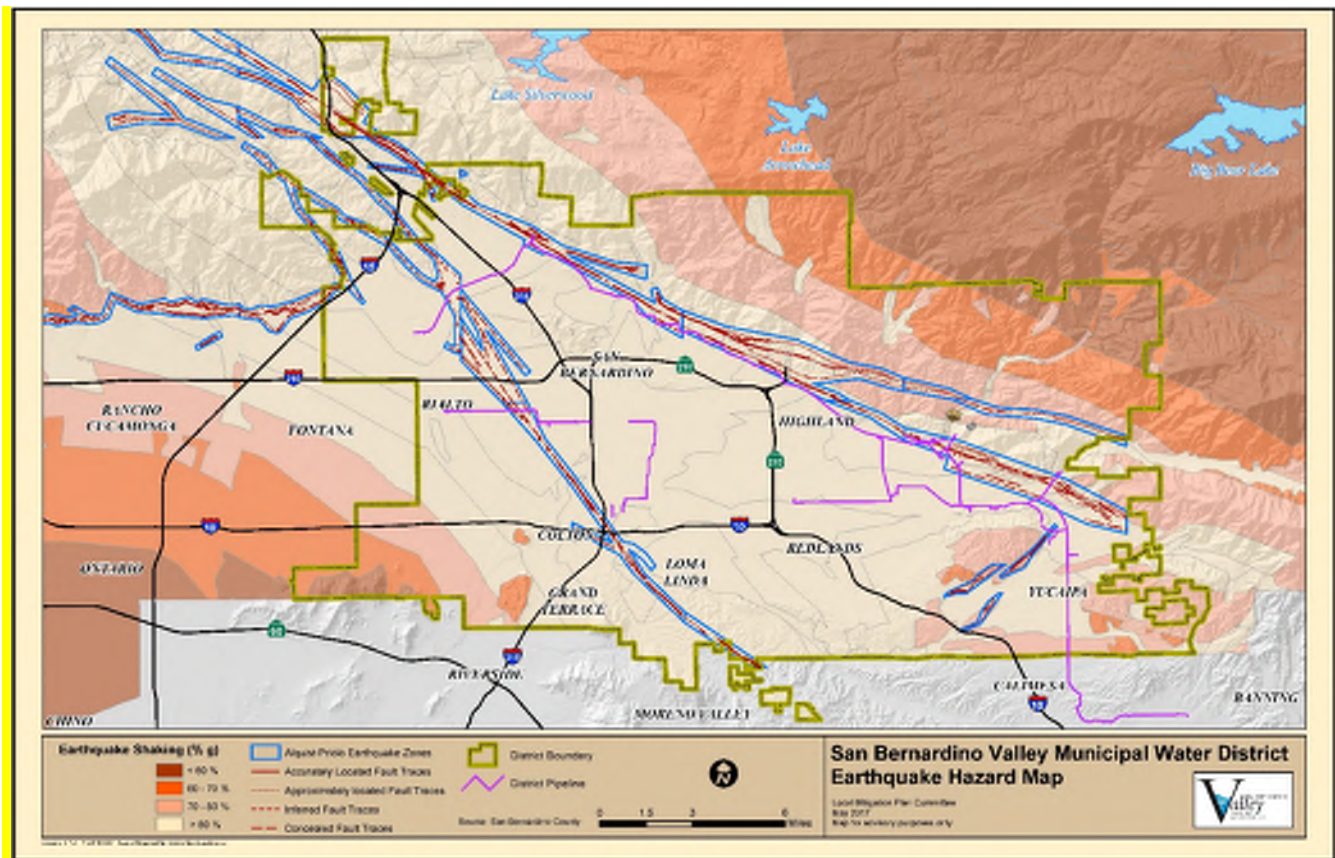


Figure 4-1. Earthquake shaking and major faults within the District.

4.3.4 Magnitude/Severity

Both the San Andreas and San Jacinto Faults are capable of producing an earthquake with a magnitude of greater than 8.0. An earthquake of this magnitude could cause in excess of \$95.5 million damage to District facilities and disrupt the District’s ability to deliver water to local retail water providers. There are also other smaller faults that are capable of generating earthquakes large enough to damage District facilities and disrupt water delivery.

Earthquakes may also produce other associated hazards, such as landslides and liquefaction. The severity of these hazards depends on several factors, including soil and slope conditions, groundwater levels, proximity to the fault, earthquake magnitude, and the type of earthquake.

4.3.5 Frequency/Probability of Future Occurrence

Figure 4-2 shows the locations of major faults in California, including the four (4) major faults in Southern California in relation to San Bernardino County region. These faults are the Southern San Andreas, the San Jacinto, the Elsinore, and the Garlock Faults. There are also many smaller faults within San Bernardino County capable of producing significant earthquakes. However, these four faults are considered by the United States Geological Survey (USGS) and the California Geological Survey (CGS) to be the most dangerous in the County. (California Geological Survey Special Publication 42, Interim Revision 2007, “Fault-Rupture Hazard Zones in California” - Alquist-Priolo Earthquake Fault Zoning Act).

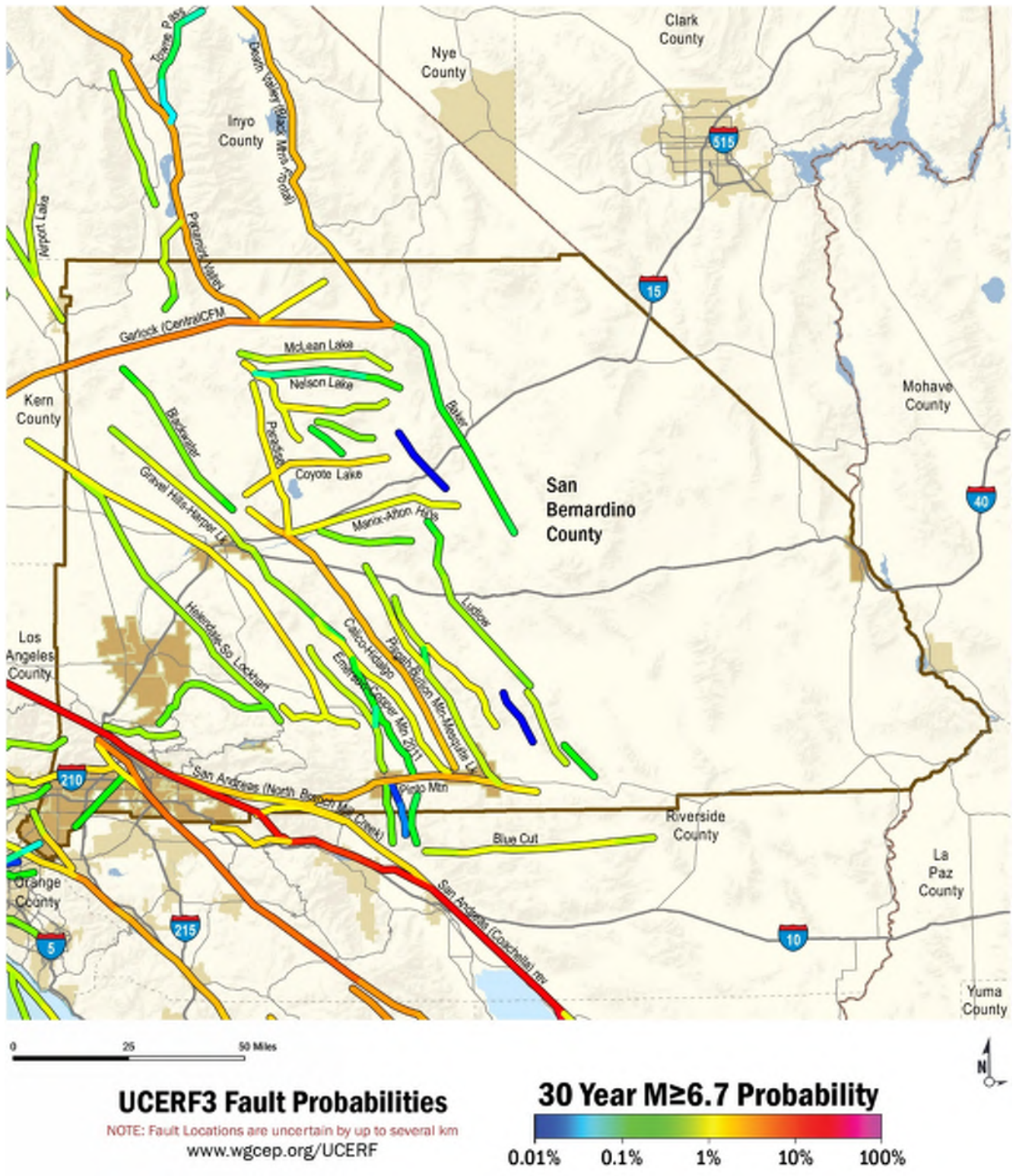
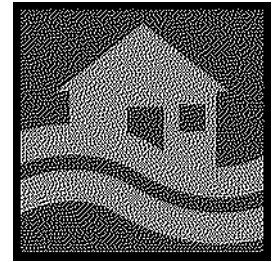


Figure 4-2 Earthquake Probability

4.4 Flood Hazard Profile

Floods are the most common and widespread of all natural disasters faced by the region. Most communities in the United States have experienced some kind of flooding, after spring rains, heavy thunderstorms, or winter snow thaws. The San Bernardino Valley experienced major flooding in 1825, 1862, 1885, 1916, 1938, 1969, 1980, 1998 and 2005 (Alluvial Fan Task Force, Plenary Meeting 1).



A flood, as defined by the National Flood Insurance Program is: "A general and temporary condition of partial or complete inundation of two or more acres of normally dry land area or of two or more properties (at least one of which is your property) from:

- *Overflow of inland or tidal waters,
- *Unusual and rapid accumulation or runoff of surface waters from any source, or a mudflow.
- *The collapse or subsidence of land along the shore of a lake or similar body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels that result in a flood."

Floods can be slow or fast rising but generally develop over a period of days. Mitigation includes any activities that prevent an emergency, reduce the chance of an emergency happening, or lessen the damaging effects of unavoidable emergencies. Investing in mitigation steps now, such as, engaging in floodplain management activities, constructing barriers, such as levees, and purchasing flood insurance will help reduce the amount of structural damage to your home and financial loss from building and crop damage should a flood or flash flood occur.

The standard for flooding is the so-called "100-year flood," a benchmark used by the Federal Emergency Management Agency to establish a standard of flood control in communities throughout the country. Thus, the 100-year flood is also referred to as the "regulatory" or "base" flood.

The 1% annual chance flood is the flood that has a 1% chance of being equaled or exceeded in any given year and it could occur more than once in a relatively short period of time. By comparison, the 10% flood (10-year flood) means that there is a 10% chance for a flood of its size to occur in any given year.

Climate change is likely to cause an increase in intense rainfall events, periodically ones with larger than historical runoff, causing more frequent and/or extensive flooding.

4.4.1 Regulatory Environment

4.4.1.1 National Flood Insurance Program (NFIP)

The District does not issue building permits or regulate development. Therefore, the District does not participate in the FEMA NFIP program.

4.4.2 Past Occurrences

Valley District owns a 78-inch diameter pipeline (Foothill Pipeline) that crosses the City Creek channel in Highland. The City Creek Channel has been both eroding and head cutting in the segment of the stream channel between Highland Avenue and Base Line Road. Since 2006 Valley District has been actively working to protect the Foothill Pipeline, installing gabion walls and rip rap armory. In December 2010, a flood event damaged the pipeline protection put in place and Valley District had to perform emergency construction work to repair the damage (see figure 4-3 below).



Figure 4-3. Foothill Pipeline Crossing at City Creek.

4.4.3 Location/Geographic Extent

A majority of the flood risk within Valley District is specifically subject to inundation as a result of heavy rainfall and resulting stream and drainage canal overflows. The extent of flooding associated with a 1-percent annual probability of occurrence (the base flood or 100-year flood) is used as the regulatory boundary by many agencies, and helps identify the location and extent of flooding in areas across the Valley District. This area is also referred to as the SFHA, and is a convenient tool for assessing vulnerability and risk in flood-prone communities.

Figure 4-4 shows 100-year and 500-year floodplain zones, which are estimated inundation areas based on a flood that has a 1-percent (100-year) and 2-percent (500-year) chance of occurring in any given year. Valley District contains over 25,942 acres of identified flood hazard areas. Table 4-1 provides the total area for both the 100-year and 500-yr. flood hazard areas.

Important to note: San Bernardino County does not have California Department of Water Resources (DWR) State Awareness Zones identified.

Table 4-1. Special Flood Hazard Area

	Sum of Acres	Sum of Square Miles
100-Year Flood	55,068	86
500-Year Flood	10,374	16
Total	25,942	102

4.4.4 Magnitude/Severity

Flooding is a significant concern to Valley District. In urban areas like Valley District, flood problems are intensified because new homes and other structures, and new streets, driveways, parking lots, and other paved areas decrease the amount of open land available to absorb rainfall and runoff, thus increasing the volume of water that must be carried away by waterways.

Although the majority of District facilities are underground and/or outside the flood zone, the pipelines that cross open stream channels are vulnerable to flood damage. The District has approximately 6 miles of pipeline that cross City Creek, Mill Creek, Santa Ana River and several other smaller channels within the 100-year flood zone. Flood events can remove top cover and undermine pipelines (as with City Creek), potentially damaging/destroying District facilities, which could cause the District to be unable to deliver water.

4.4.5 Frequency/Probability of Future Occurrences

The FIRM maps not only identify the flood hazard zones for insurance and floodplain management purposes, but also provide a statement of probability of future occurrence. A 500-year flood has a 0.2-percent chance of occurring in any given year; a 100-year flood has a 1-percent chance, a 50-year flood has a 2-percent chance, and a 10-year flood has a 10-percent chance of occurrence. Although the recurrence interval represents the long-term average period between floods of specific magnitude, significant floods could occur at shorter intervals or even within the same year. The FIRM maps typically identify components of the 500-year and 100-year floodplains. Figure 4-4 show FEMA 100-year and 500-year flood zones.

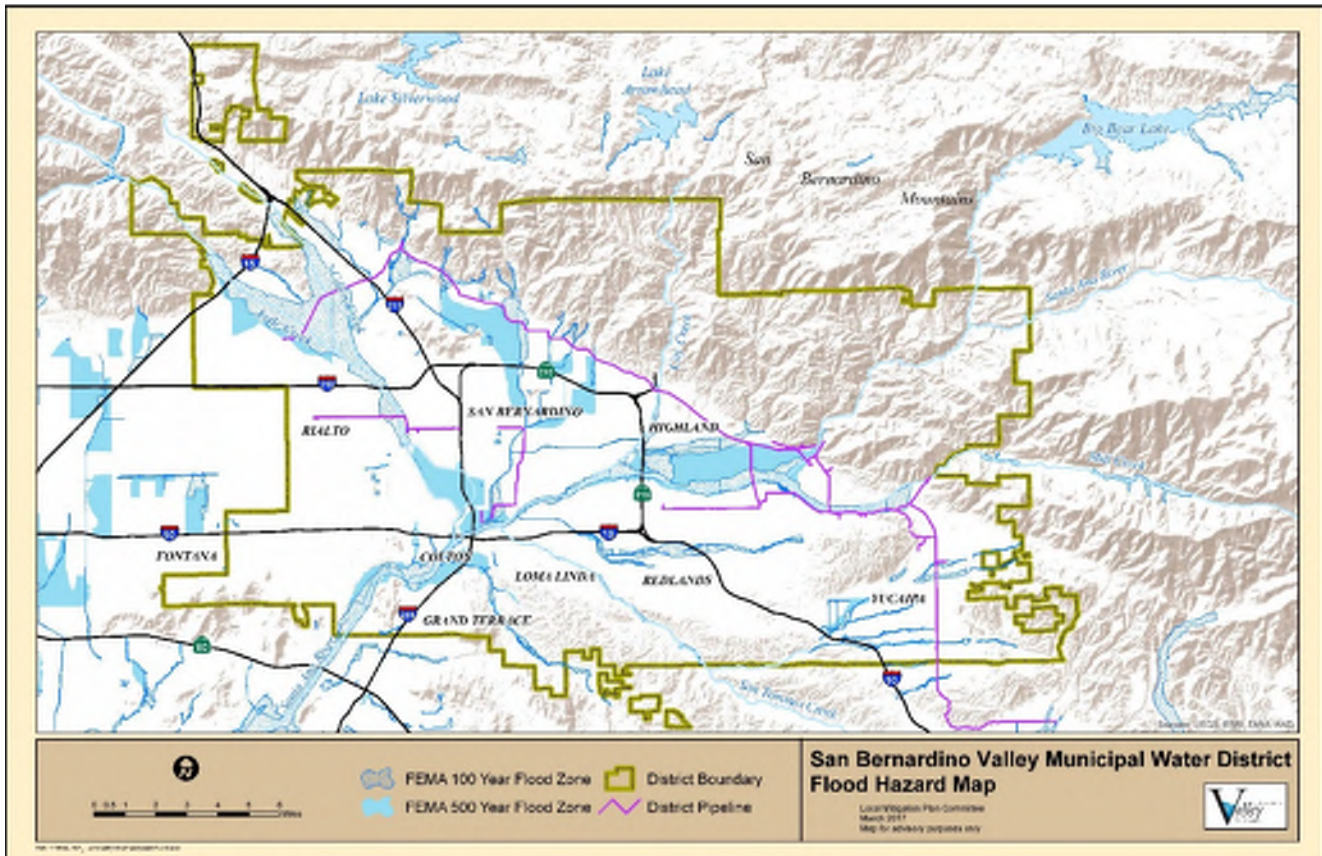
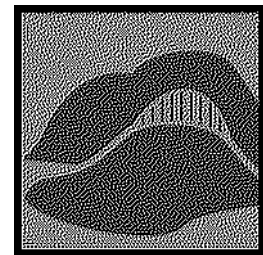


Figure 4-4. FEMA 100-year and 500-year flood zones within the District.

4.5 Landslide Hazard Profile

Landslides occur when the force pulling the material on the slope in a downward direction under gravitational influence exceeds the strength of the earth materials that compose the slope (USGS 2004). These materials may move by falling, toppling, sliding, spreading, and/or flowing. Strength of rock and soil, steepness of slope, and weight of the hillside material all play an important role in the stability of hillside areas. Weathering and absorption of water can weaken slopes, while the added weight of saturated materials or overlying construction can increase the chances of slope failure. Sudden failure can be triggered by earthquake shaking, excavation of weak slopes, and heavy rainfall.



Landslides are primarily associated with mountainous regions. Additionally, landslides can occur in areas of low relief. Landslides can occur due to geological, morphological, or human causes. These include weak and sheared materials, thawing, shrink swell, and deforestation. Many of the District's facilities are located along foothills. Since landslides typically occur along foothills, this creates a hazard for the District. Landslides often accompany other natural hazard events, such as earthquakes, flooding, and wildfire.

Climate change is expected to cause an increase in intense rainfall events which would contribute to the severity/frequency of landslides.

4.5.1 Regulatory Environment

Valley District does not regulate development.

4.5.2 Past Occurrences

None to report.

4.5.3 Location/Geographic Extent

Areas with steeper slopes, in combination with other factors described above, are more susceptible to landslides than areas on shallow slopes. Figure 4-5 illustrates the slope areas at risk to landslide which potentially could damage Valley District facilities.

4.5.4 Magnitude/Severity

The District is increasingly vulnerable to landslides due to drought and subsequent wildfires along the foothills where many of the District's facilities are located. A lack of vegetation in these areas increases the likelihood of a landslide in the event of an earthquake. In addition to landslides, mudslides and debris flows can occur in areas previously damaged by wildland fires. Debris flows triggered by intense rainfall can be fast-moving and highly destructive, and can occur without warning. These debris flows can cause damage to structures in their path. Several of the District's above-ground water delivery structures are located in higher risk areas.

4.5.5 Frequency/Probability of Future Occurrence

The District's Foothill Pipeline runs along the base of the San Bernardino Mountains and is the most vulnerable component of the District's infrastructure to a landslide as illustrated in Figure 4-5. The moderate probability of a landslide along areas with a slope of >25% and higher probability within the recent burn areas.

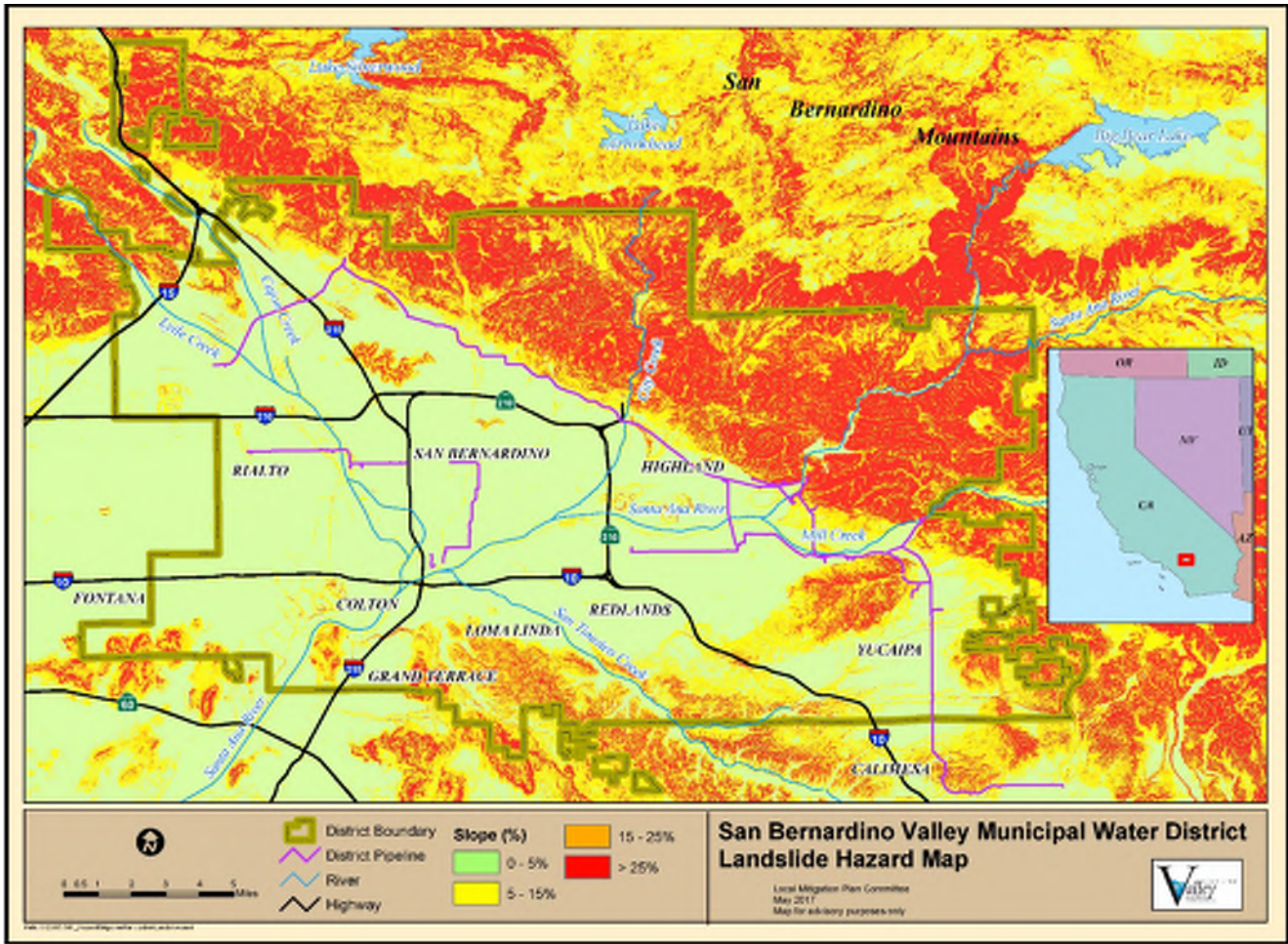


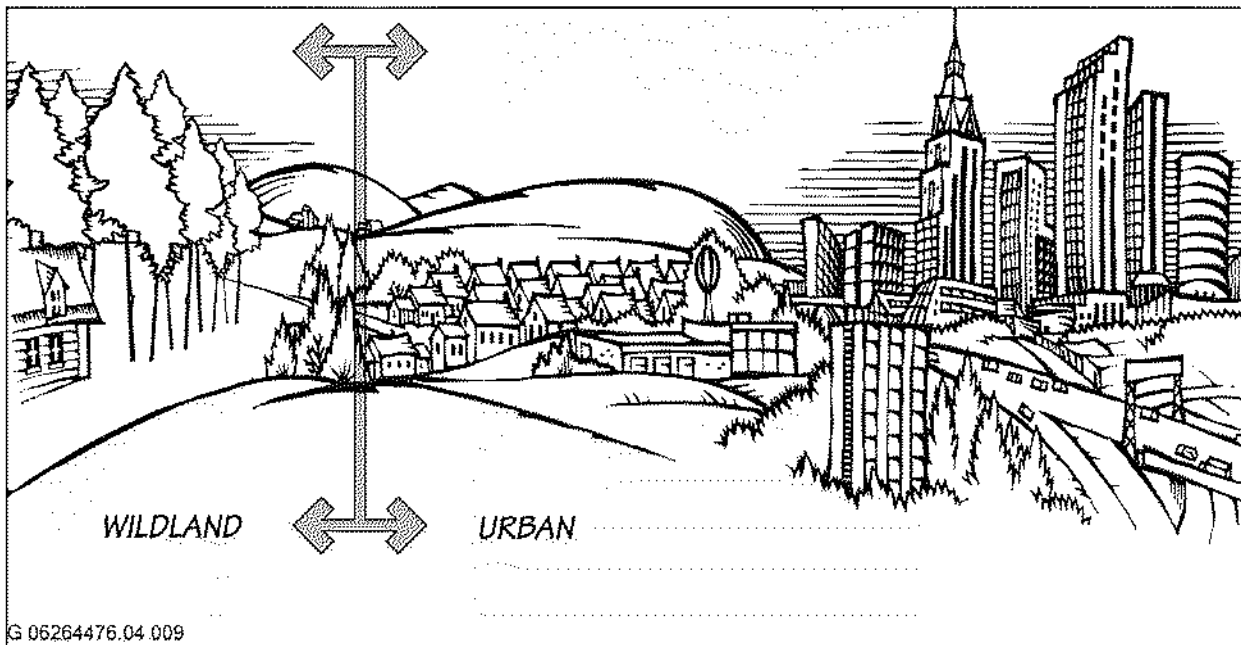
Figure 4-5. Land slope/landslide hazard areas within the District.

4.6 Wildfire Hazard Profile

As defined in the California Fire Protection (CAL FIRE) 2010 Strategic Fire Plan, a wildfire event is an unwanted wildland fire including unauthorized human-caused fires, escaped wildfire use events, escaped prescribed wildfire projects, and all other wildfires.

Wildfire hazard is a significant and recurrent threat in the Valley District service area and has the potential to destroy buildings, cause damage to vital infrastructure, injure people, and can result in loss of life, agricultural land, and animals. Wildfire season commences in early spring through late fall every year during the hotter, dryer months. Highly flammable vegetation and warm, dry summers create the potential for wildland fires in Vacaville. The risk of wildland fires is related to a combination of factors, including winds, temperatures, humidity levels, and fuel moisture content. Of these four factors, wind is the most crucial. Steep slopes also contribute to fire hazards by intensifying the effects of wind and making fire suppression difficult. Where there is easy public access to dry vegetation, fire hazards increase due to greater chance of human carelessness. High hazard areas include outlying residential parcels and open lands adjacent to residential areas. Such development has also moved the urban wildland interface (the area where human development meets undeveloped wildland) closer to higher-risk, wildfire hazard areas, increasing the number of people and buildings at risk as illustrated in Figure 4-6: Urban Wildland Interface.

Figure 4-6: Urban Wildland Interface



Climate change and the associated warmer weather, reduced snowpack, and earlier snowmelt can be expected to increase wildfire risk through fuel hazards and ignition risks. These changes can also increase plant moisture stress and insect populations, both of which affect forest health and reduce forest resilience to wildfires. An increase in wildfire intensity and extent will increase public safety risks, property damage, fire suppression and emergency response costs to government, watershed and water quality impacts, vegetation conversions and habitat fragmentation.

4.6.1 Regulatory Environment

Wildfire regulatory requirements are mandated by the State of California.

4.6.1.1 State

Wildfire State Responsibility Area (SRA) Fire Safe Regulations outline basic wildland fire protection standards for local jurisdictions. SRA Fire Safe Regulations (if policed) can decrease the risk of wildfire events in the wildland interface. SRA Fire Safe Regulations do not supersede local regulations, which equal or exceed minimum state regulations. The State statute for wildfire protection is Public Resources Code, Section 4290. Requirements in the code include information on the following (CA Fire Alliance n.d.):

1. Road Standards for Fire Equipment Access
2. Standards for Signs Identifying Streets, Roads and Buildings
3. Minimum Private Water Supply Reserves for Emergency Fire Use
4. Fuel Breaks and Greenbelts

4.6.1.2 Local

Fire protection for Valley District is the responsibility of multiple jurisdictions. Emergency response personnel are deployed from 40 fire stations located strategically throughout the District's service area.

4.6.2 Past Occurrences

Wildfire events are of concern to the Valley District. Cal FIRE maintains a database of wildfire perimeters. Table 4-4 gives the dates and fire names of the historical wildfires that have burned within the District's service area. Figure 4-7 shows where those historical burn areas in the District's service area have occurred. In the past five years there have been 18 significant wildland fires within the District's service area. These fires are listed in Table 4-4.

Table 4-4. Wildfire Occurrences 2010-2015

Year	Fire Name	Acres
6/6/2010	CACTUS	40
11/6/2010	SCOTT	96
11/6/2010	SEPULVEDA	24
5/12/2010	PEDLEY	717
8/22/2011	KEN	322
10/21/2011	MILL	33
8/28/2011	FLORIDA	67
11/5/2012	DEVORE	334
9/8/2012	GREENSPOT	57
8/17/2013	CLEGHORN	98
5/13/2013	LYTLE	77
9/24/2013	SIERRA	123
8/4/2013	WOOD	13
7/19/2013	GREY	12
6/28/2013	MILL	534
9/11/2013	LIVE OAK	73
7/12/2015	MILL2	54
6/25/2015	STERLING	118
Total		27,792

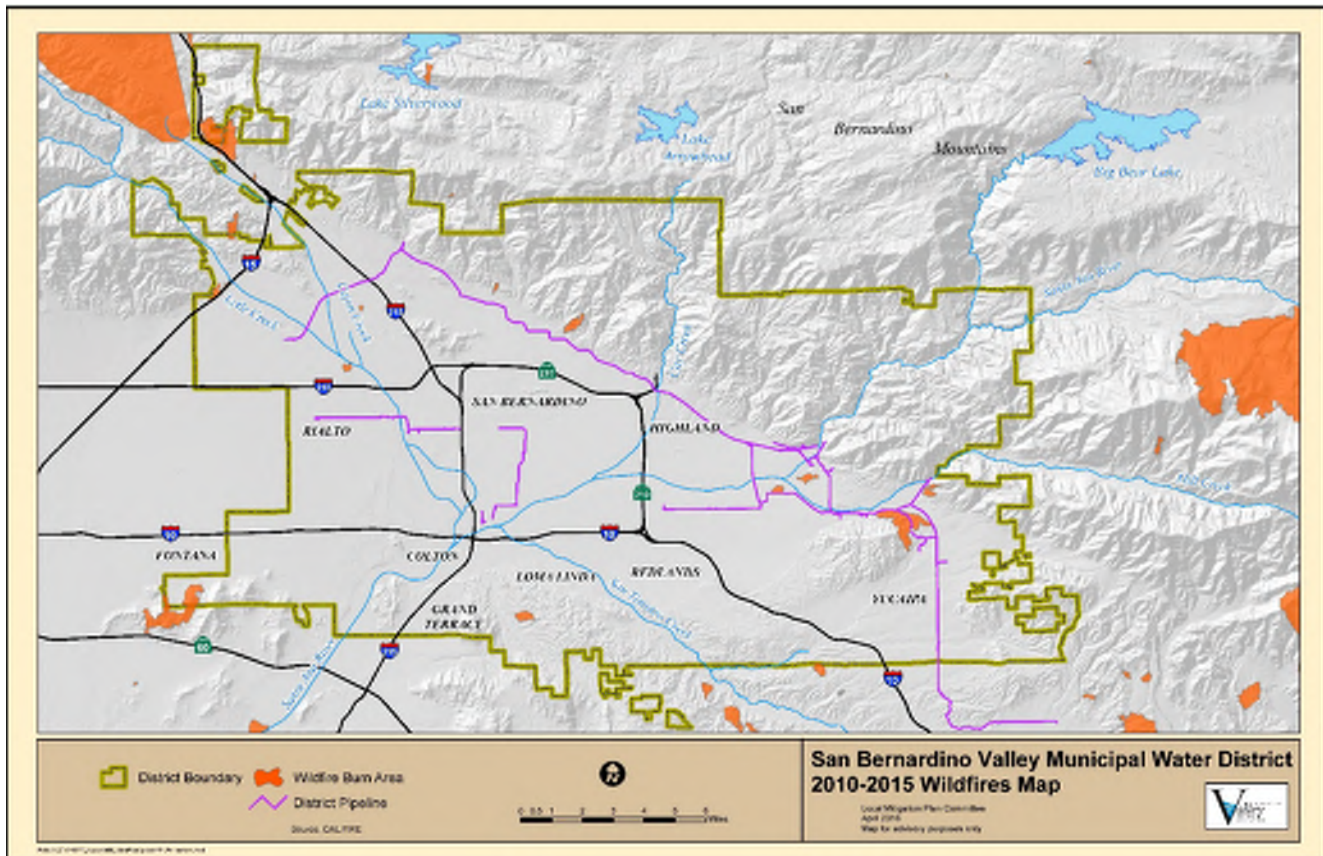


Figure 4-7: Wildfire History Map

4.6.3 Location/Geographic Extent

Using information from the California Department of Forestry (CAL FIRE) Figure 4-8, illustrates the areas at risk to a wildfire event. The areas with the highest risk of wildfire are the in the south central and northern portions of the District. The remainder of the District is urban/unzoned.

4.6.4 Magnitude/Severity

The magnitude and severity of a wildfire event is measured by calculating the number of acres burned in a specific wildfire event. CAL FIRE adopted Fire Hazard Severity Zone maps for LRA in June 2008. The Fire Severity Zones for Valley District identify areas of Very High, High, and Moderate fire hazard severity throughout the County and are mapped in Figure 4-8.

Fire Severity Zones are used in determining additional protective measures required when building new structures or remodeling older structures within the particular zone. Additional measures must be taken on the property around a structure in the higher ranked fire Severity Zones.

Fire hazard mapping is a way to measure the physical fire behavior to predict the damage a fire is likely to cause. Fire hazard measurement includes vegetative fuels, probability of speed at which a wildfire moves the amount of heat the fire produces, and most importantly, the burning fire brands that the fire sends ahead of the flaming front.

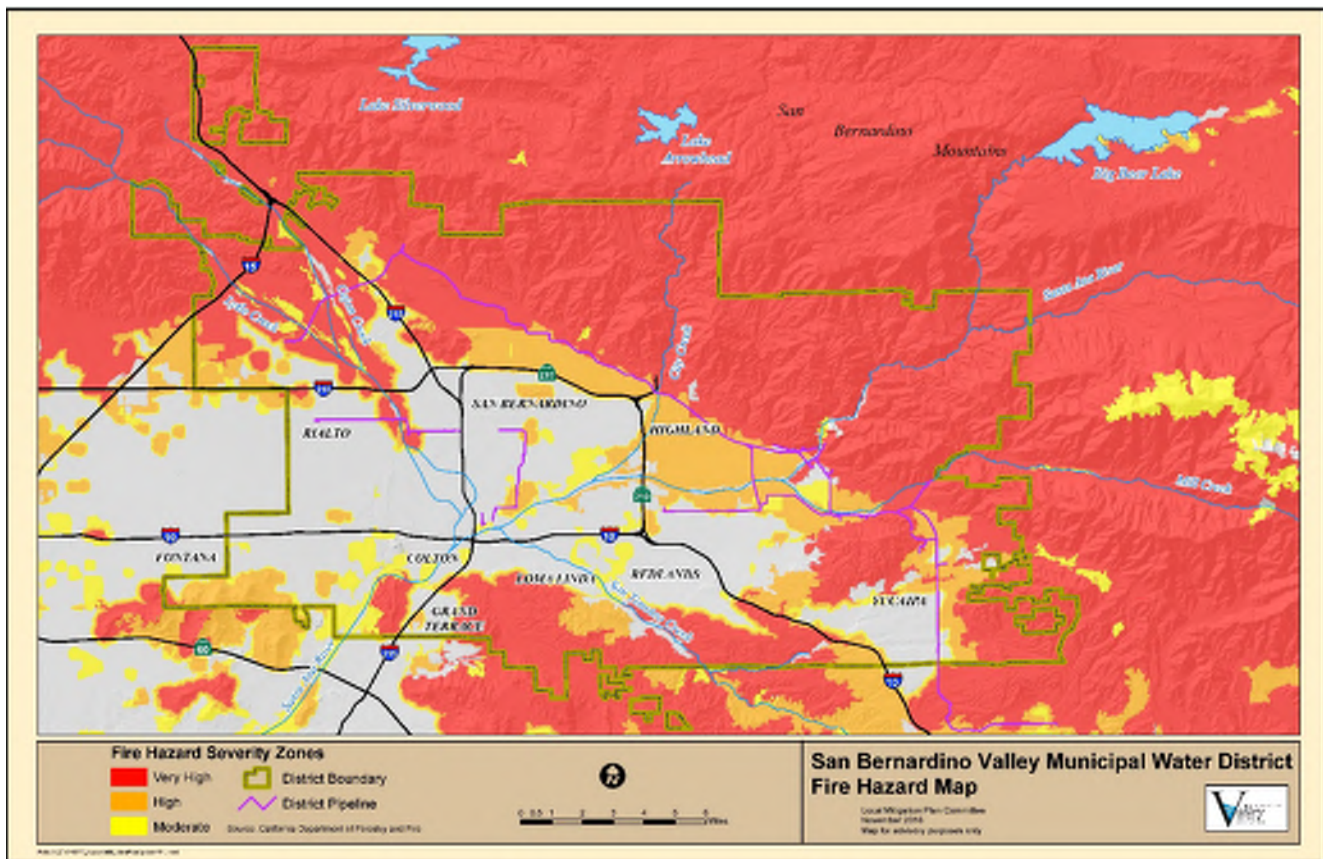
The model used to develop the information in accounts for topography, especially the steepness of the slopes (fires burn faster as they burn up-slope.). Weather (temperature, humidity, and wind) also has a significant influence on fire behavior. The areas depicted as moderate and high in are of particular concern and potential fire risk in these are constantly increasing as human development, and the wildland urban interface areas expand.

4.6.5 Frequency/Probability of Future Occurrences

In San Bernardino County, wildfire season commences in the Summer when temperatures are high, humidity is low, and conditions remain dry. The season continues into the Fall, when the County experiences high velocity, very dry winds coming out of the desert. A statewide drought beginning in 2011 has caused the state to be the driest it's been since record keeping began back in 1895 (California 2016). This has caused extremely dry conditions in unincorporated areas of the County creating plentiful fuel sources for wildfires.

USGS LANDFIRE (Landscape Fire and Resource Management Planning Tools), is a shared program between the wildland fire management programs of the U.S. Department of Agriculture Forest Service and U.S. Department of the Interior, providing landscape scale geo-spatial products to support cross-boundary planning, management, and operations. Historical fire regimes, intervals, and vegetation conditions are mapped using the Vegetation Dynamics Development Tool (VDDT). This USGS data supports fire and landscape management planning goals in the National Cohesive Wildland Fire Management Strategy, the Federal Wildland Fire Management Policy, and the Healthy Forests Restoration Act.

Figure 4-8: Wildfire Hazard Severity Zones



4.7 Drought

A drought is a period of drier-than-normal conditions that results in water-related problems. Precipitation (rain or snow) falls in uneven patterns across the country. When no rain or only a small amount of rain falls, soils can dry out and plants can die. When rainfall is less than normal for extended periods of time, the flow of streams and rivers declines, water levels in lakes and reservoirs fall, and the depth to water in wells increases. If dry weather persists and water supply problems develop, the dry period can become a drought. The first evidence of drought usually is seen in records of rainfall. Within a short period of time, the amount of moisture in soils can begin to decrease. The effects of a drought on flow in streams and rivers or on water levels in lakes and reservoirs may not be noticed for several weeks or months. Water levels in wells may not reflect a shortage of rainfall for a year or more after the drought begins. A period of below-normal rainfall does not necessarily result in drought conditions. Some areas of the United States are more likely to have droughts than other areas. In humid, or wet, regions, a drought of a few weeks is quickly reflected in a decrease in soil moisture and in declining flow in streams. In arid, or dry, regions, people rely on ground water and water in reservoirs to supply their needs. They are protected from short-term droughts, but may have severe problems during long dry periods because they may have no other water source if wells or reservoirs go dry.

4.7.1 Regulatory Environment

Drought related regulatory requirements are mandated by the State of California and local water retailers.

4.7.2 Past Occurrences

Southern California has a history of severe droughts. There have been six severe extended droughts within the last 400 years (the most severe drought lasted from approximately 1650 to 1700).

The District has experienced a 20-year drought from about 1945-65 and is currently experiencing a 19-year drought, and counting, that started in 1998. Because drought is a common occurrence that directly impacts water supplies, the District spends much of its resources on strategies to make it through droughts.

4.7.3 Location/Geographic Extent

The effects of drought are not limited by geographic borders. All of Valley District's service area is at risk for drought.

4.7.4 Frequency/Probability of Future Occurrences

Droughts are a regular occurrence for California. The U.S. Weather Service is forecasting 20 more years of below average rainfall and climate change is likely to cause drought to occur more frequently.

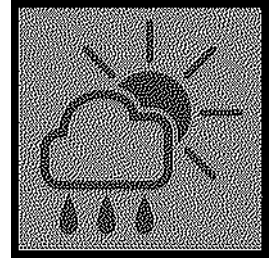
4.7.5 Implementation Measures

In 2005, the Upper Santa Ana Water Resources Association (Association) agreed to develop an Integrated Regional Water Management Plan (IRWMP) to address major water management issues for the communities of the Upper Santa Ana River Watershed. San Bernardino Valley Municipal Water District (Valley District), as the regional water agency, agreed to lead the planning effort and received a grant from the California Department of Water Resources (DWR) to prepare this plan. An important objective of the plan is to improve water reliability during drought periods.

Currently under construction, the Enhanced Recharge in Santa Ana River Basins Project enables the District and its partner, Western Municipal Water District, to capture up to 200,000 acre-feet of stormwater from the Santa Ana River each year, which mitigates the drought hazard.

4.8 Climate Change

Climate change refers to any distinct change in measures of climate lasting for a long period of time, more specifically major changes in temperature, rainfall, snow, or wind patterns. Climate change may be limited to a specific region, or may occur across the whole Earth. Climate change may result from:



- Natural factors (e.g., changes in the Sun's energy or slow changes in the Earth's orbit around the Sun);
- Natural processes within the climate system (e.g., changes in ocean circulation); and
- Human activities that change the atmosphere's make-up (e.g., burning fossil fuels) and the land surface (e.g., cutting down forests, planting trees, building developments in cities and suburbs, etc.).

The effects of climate change may include: warmer and more varied weather patterns, melting ice caps, and poor air quality, for example. As a result, climate change impacts a number of natural hazards.

Description: The 2013 State of California Multi-Hazard Mitigation Plan stated that climate change is already affecting California. Sea levels have risen by as much as seven inches along the California coast over the last century, increasing erosion and pressure on the state's infrastructure, water supplies, and natural resources. The State has also seen increased average temperatures, more extreme hot days, fewer cold nights, a lengthening of the growing season, shifts in the water cycle with less winter precipitation falling as snow, and both snowmelt and rainwater running off sooner in the year. In addition to changes in average temperatures, sea level, and precipitation patterns, the intensity of extreme weather events is also changing.

4.8.1 Regulatory Environment

California's response to climate change is directed by Legislation and Regulations and by other Mandates such as executive orders.

4.8.1.1 The Sustainable Communities and Climate Protection Act of 2008

The Sustainable Communities and Climate Protection Act of 2008 (Sustainable Communities Act, SB 375, Chapter 728, Statutes of 2008) looks to reduce GHG emissions through coordinated transportation and land use planning with the goal of more sustainable communities. Regional targets are established for GHG emissions reductions from passenger vehicle use by the sustainable communities strategy (SCS) established by each metropolitan planning organization (MPO). The SCS is an integral part of the regional transportation plan (RTP) and contains land use, housing, and transportation strategies to meet GHG reductions targets. In San Bernardino County, the South Coast Air Quality Management District facilitates compliance with the federal Clean Air Act and implements the state's air quality program.

The Office of Planning and Research's General Plan Guidelines and SB 375 builds upon Assembly Bill 162 (flood protection) and Senate Bill 1241 (fire protection) and supports Safeguarding California implementation.

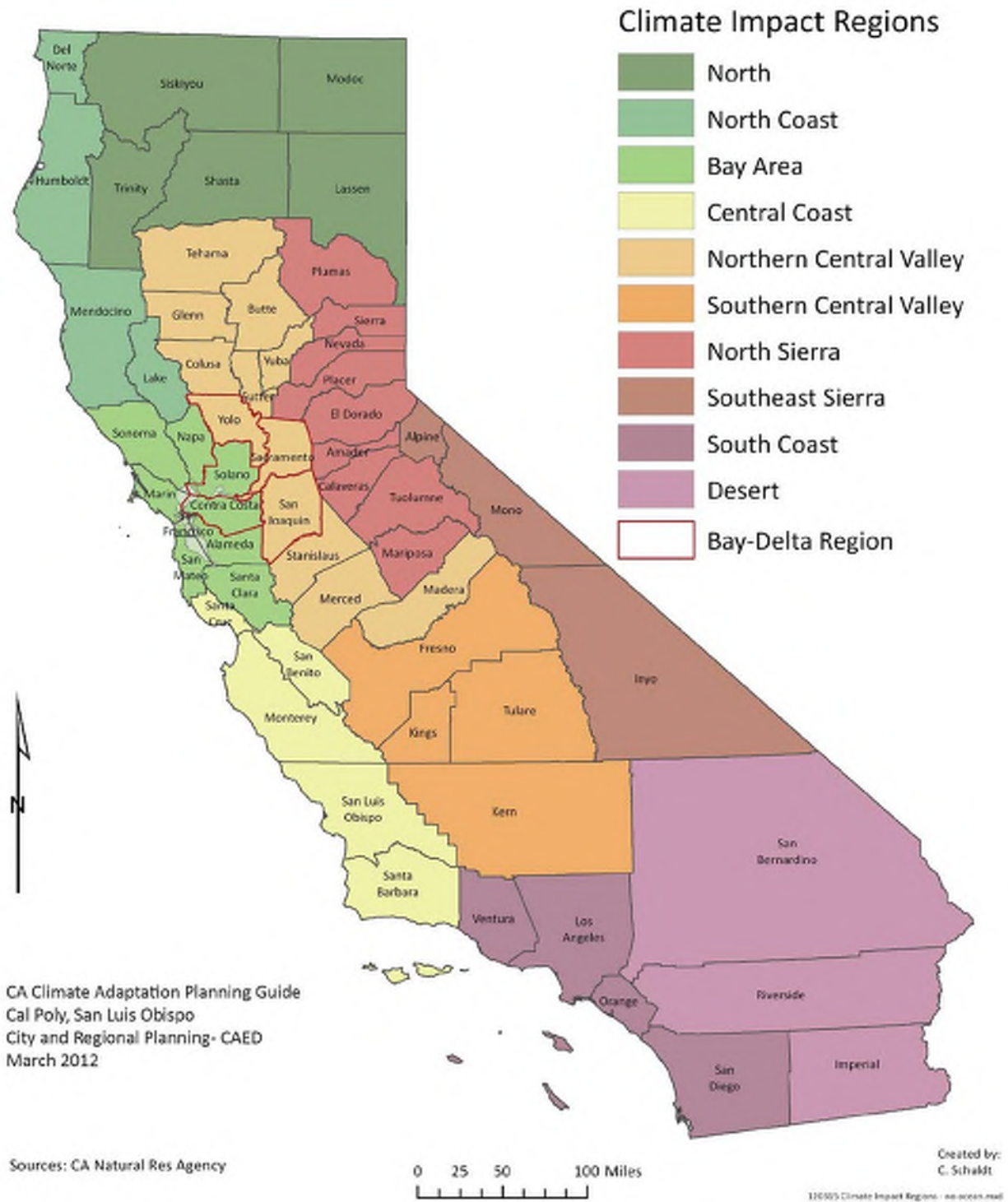
SB 375 also supports Assembly Bill 2140 which requires that a City/County General Plan contains a safety element in addition to a Hazard Mitigation Plan. AB 2140 also requires a vulnerability assessment, adaptation goals, policies and objectives, and a set of feasible implementation measures.

4.8.1.2 California Adaptation Planning Guide (APG)

The State of California has been taking action to address climate change for over 20 years, focusing on both greenhouse gas emissions reduction and adaptation. The California Adaptation Planning Guide (APG) continues the state's effort by providing guidance and support for communities addressing the unavoidable consequences of climate change.

Based on upon specific factors, 11 Climate impact regions were identified. Some of the regions were based on specific factors particularly relevant to the region. As illustrated in Figure 4-9 San Bernardino and Riverside Counties are located in the Desert Region.

Figure 4-9: Climate Impact Regions



The Desert is a heavily urbanized inland region (4.3+ million people) made up of sprawling suburban development in the west near the South Coast region and vast stretches of open, largely federally owned desert land to the east. Prominent cities within the desert portion include Palm Springs (44,500+) and El Centro (42,500+).

The region's character is defined largely by the San Gabriel Mountains, San Geronio Mountains, San Jacinto Mountains, San Bernardino Mountains, and smaller inland mountains reaching through the desert

to the Colorado River, which borders the region on the east. Communities in the Desert region should consider evaluating the following climate change impacts:

- Reduced water supply
- Increased temperature
- Reduced precipitation
- Diminished snowpack
- Wildfire risk
- Public health and social vulnerability
- Stress on special-status species

4.8.2 Past Occurrences

Climate change has never been directly responsible for any declared disasters. Past flooding, wildfire, levee failure, and drought disasters may have been exacerbated by climate change, but it is impossible to make direct connections to individual disasters. In addition, unlike earthquake and floods that occur over a finite time period, climate change is an on-going hazard, the effects of which some are already experiencing. Other effects may not be seriously experienced for decades, or may be avoided altogether by mitigation actions taken today.

According to the California State Hazard Mitigation Plan (SHMP), the worst single heat wave event in California occurred in Southern California in 1955, when an eight-day heat wave resulted in 946 deaths. The July 2006 heat wave in California caused approximately 140 people deaths over a 13-day period.

4.8.3 Location/Geographic Extent

The effects of climate change are not limited by geographical borders. San Bernardino County, the State of California, the United States, and the rest of the world are all at risk to climate change. As such, the entire County is at risk to the effects of climate change. As such, the entire County is at risk to the effects of climate change.

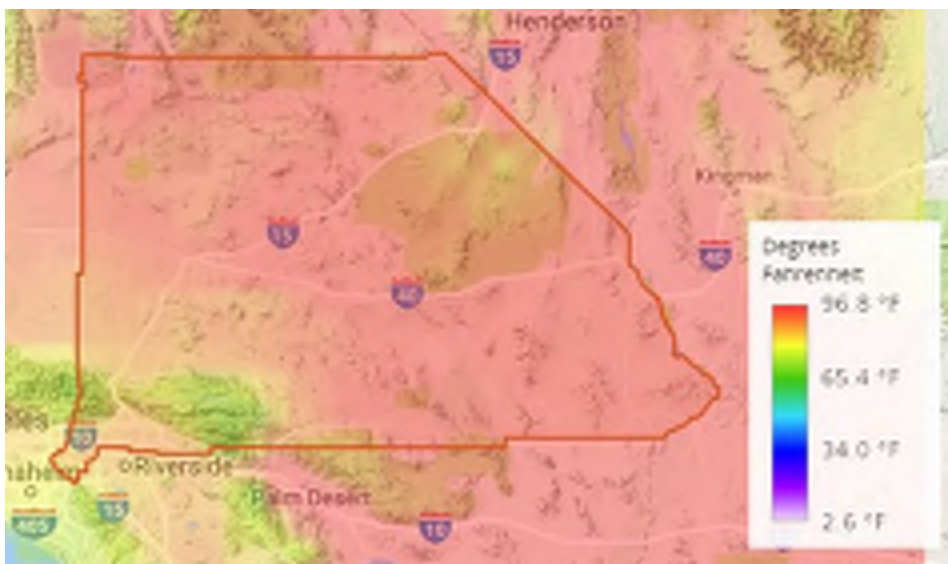
Figure 4-10 and Figure 4-11 provide Cal Adapt² modeled decadal July high temperature averages for 2010 and 2090. These figures provide current decade-long July temperature averages and possible annual high heating trends for the remaining portion of the century. The data presented in the figures represent a “projection” of potential future climate scenarios, they are not predictions. These figures illustrate how the climate may change based on a variety of different potential social and economic factors. The visualizations are comprised of average values from Coupled Climate model 2.1 (GFDL), Community Climate System Model Version 3 (CCSM3), Coupled Global Climate Model Version 3 (CNRM) and Parallel Climate Model 1 (PCM1). During the next few decades, scenarios project average temperature to rise between 1° and 2.3°F; however, the projected temperature increases begin to diverge at mid-century so that, by the end of the century, the temperature increases projected in the higher emissions scenario (A2) are approximately twice as high as those projected in the lower emissions scenario (B1). C

Figure 4-10: July Decadal Average High Temperature Map; 2010

² Cal-Adapt has been funded to provide access to data and information that has been produced by the State's scientific and research community. The data available in this site offer a view of how climate change might affect California at the local level.



Figure 4-11: July Decadal Average High Temperature Map: 2090



4.8.4 Magnitude/Severity

The California Adaptation Planning Guide has calculated projections for changes in temperature, precipitation, heat waves, snowpack and wildfire risk in the desert area, as shown in Table 4-5. Hotter, drier conditions are expected to exist in the desert area, increasing the risk for other natural hazards.

Table 4-5: From APG: Table 41. Summary of Cal-Adapt Climate Projections for the Desert Region

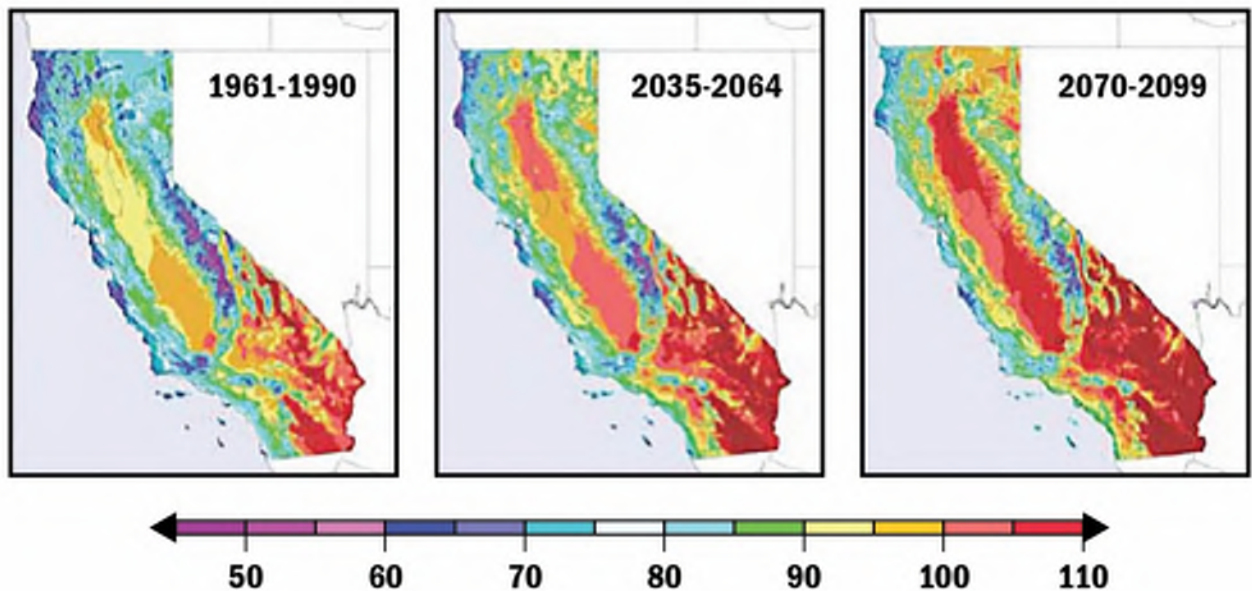
Effect	Ranges
SBVMWD – 2018 Hazard Mitigation Plan	

Temperature Change, 1990-2100	January increase in average temperatures: 2°F to 4°F by 2050 and 5°F to 8°F by 2100 July increase in average temperatures: 3°F to 5°F by 2050 and 6°F to 9°F by 2100 (Modeled high temperatures; high carbon emissions scenario)
Precipitation	Generally, annual rainfall will decrease in the most populous areas. Wetter areas like the western part of Riverside and southwestern San Bernardino counties will experience a 2 to 4 inch decline by 2050 and 3.5 to 6 inch decline by the end of the century. Big Bear is expected to lose around 8 inches per year by 2090. Southern Imperial County will have a small decline of about 0.5 inches. The eastern, desert portion of the region will see little to no change in annual rainfall. (CCSM3 climate model; high carbon emissions scenario)
Heat Wave	Heat waves are defined by five consecutive days over temperatures in the 100s over most of the region. Three to five more heat waves will be experienced by 2050, increasing to 12 to 16 in the western parts of the region to more than 18 to 20 in the eastern parts of the region.
Snowpack	March snowpack in the Big Bear area will diminish from the 2.5- inch level of 2010 to 1.4 inches in 2030 and almost zero by 2090. (CCSM3 climate model; high emissions scenario)
Wildfire Risk	Most areas are projected to have the same or slightly increased likelihood of wildfire risk. The major exceptions are the Mecca San Geronio and San Jacinto Mountains, where wildfire will be 1.5 and 2.0 times more likely. (GFDL model, high carbon emissions scenario)

[Public Interest Energy Research, 2011. Cal-Adapt. Retrieved from <http://cal-adapt.org>]

The California Climate Adaptation Strategy (CAS), citing a California Energy Commission study, states that “over the past 15 years, heat waves have claimed more lives in California than all other declared disaster events combined.” This study shows that California is getting warmer, leading to an increased frequency, magnitude, and duration of heat waves. These factors may lead to increased mortality from excessive heat, as shown in Figure 4-12.

Figure 4-12: California Historical and Projected Temperature Increases – 1961 to 2099



Source: Dan Cayan; California Climate Adaption Strategy

4.8.5 Frequency/Probability of Future Occurrences

Climate change is one of the few natural hazards where the probability of occurrence is influenced by human action. In addition, unlike earthquake and floods that occur over a finite time period, climate change is an on-going hazard.

The 2009 Climate Adaptation Strategy (CAS) delineated how climate change may impact and exacerbate natural hazards in the future, including wildfires, extreme heat, floods, drought, and levee failure:

- Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in San Bernardino County and the rest of California, which are likely to increase the risk of mortality and morbidity due to heat-related illness and exacerbation of existing chronic health conditions. Those most at risk and vulnerable to climate-related illness are the elderly, individuals with chronic conditions such as heart and lung disease, diabetes, and mental illnesses, infants, the socially or economically disadvantaged, and those who work outdoors.
- The Desert region relies on water from the Colorado River and the State Water Project. Both of these sources begin with mountain snowpack. Climate change will result in drastically reduced supply from these sources. Declining snowpack in the San Gabriel Mountains, San Gorgonio Mountains, and San Jacinto Mountains will lead to permanently diminished local water supply.
- Higher temperatures will melt the snowpack earlier and drive the snowline higher, resulting in less snowpack to supply water to California users.
- Droughts are likely to become more frequent and persistent in the 21st century.
- Intense rainfall events, periodically ones with larger than historical runoff, will continue to affect California with more frequent and/or more extensive flooding.
- Storms and snowmelt may coincide and produce higher winter runoff. Together, these changes will increase the probability of dam and levee failures in the San Bernardino County Flood Control District.
- Warmer weather, reduced snowpack, and earlier snowmelt can be expected to increase wildfire risk through fuel hazards and ignition risks. These changes can also increase plant moisture stress

and insect populations, both of which affect forest health and reduce forest resilience to wildfires. An increase in wildfire intensity and extent will increase public safety risks, property damage, fire suppression and emergency response costs to government, watershed and water quality impacts, vegetation conversions and habitat fragmentation.

4.9 Liquefaction

Description:

Since groundwater levels are generally deeper than 50 feet below ground surface, Liquefaction is not currently a hazard for the District. High groundwater conditions which create the potential for liquefaction are regularly monitored and evaluated.

4.10 Inventory Assets

<p><i>IFR</i> §201.6(c)(2)(ii)(A):</p>	<p>[The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(I) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: - the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas ...</p>
<p><i>Explanation:</i></p>	<p>This information list should be based on an inventory of existing and proposed structures within the community and/or an estimate of those located within identified hazard boundaries. The information should include critical facilities, such as shelters and hospitals, and infrastructure, such as roadways, water, utilities, and communication systems. The community should determine how far into the future they wish to go in considering proposed structures, including planned and approved development. It may be based on information in their comprehensive plan or land use plan. The community should determine how best to indicate structures that are vulnerable to more than one hazard.</p>

This section provides an overview of the assets in the San Bernardino Valley Municipal Water District. The assets identified within this section are wholly owned by the District, maintained by the District under contract, or are recognized by the District as being relevant to the local water community. These include District facilities (pipelines, valves, meters, pumps, reservoirs, etc.), District property in fee and easement, limited State of California Department of Water Resources (DWR) facilities, and facilities the District neither owns nor operates, but shared in the installation or maintenance costs.

4.10.1 Population

The population of the District is approximately 695,000 people (source: US Census Bureau).

4.10.2 Buildings

The District owns both an administrative and field office warehouse building, in addition to 5 pump station buildings.

4.10.3 Critical Facility List

This section provides a listing (Table 4-5) and a map (Figure 4-9) of the critical facilities in San Bernardino Valley Municipal Water District.

There are currently 60 miles of 12" to 78" diameter pipeline in the San Bernardino Valley Municipal Water District's delivery system. The District has 32 delivery points which supply both native and California State Water Project water for direct delivery or groundwater recharge to areas within the District's boundary. Additionally required are the pump stations, meter stations, line valves, intakes, and storage reservoirs used to complete the transmission process.

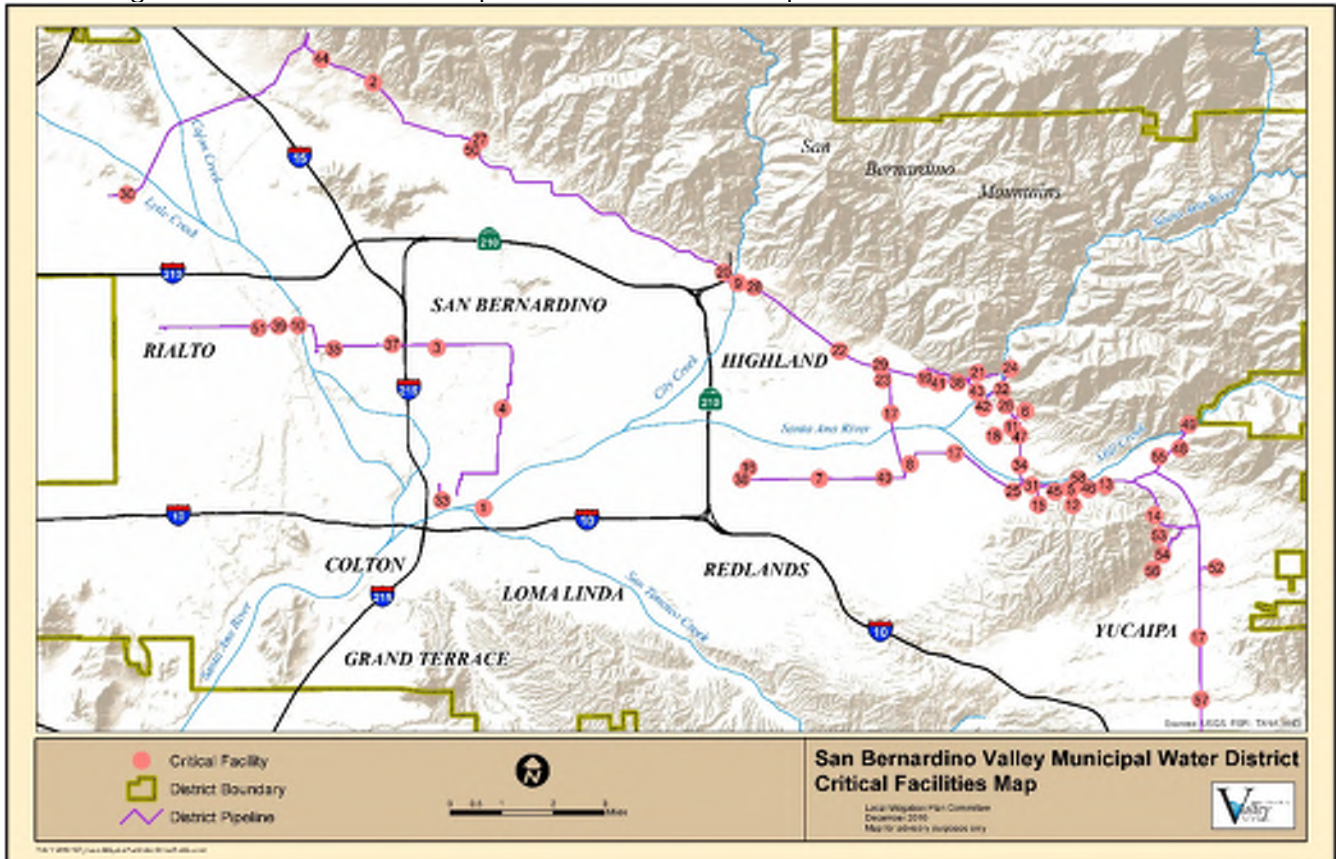


Figure 4-9. District Critical Facilities Map.

ID	FACILITY NAME	FACILITY TYPE
1	Administrative Office	Office Building
2	Badger Turnout	Water Delivery Structure
3	Baseline Feeder Pipeline	Pipeline
4	Baseline Feeder South	Pipeline
5	Bear Valley Highline Bouffloun Turnout	Water Delivery Structure
6	Bear Valley Highline Connector Turnout	Water Delivery Structure
7	Central Feeder	Pipeline
8	Citrus Pump Station Well	Well
9	City Creek Turnout	Water Delivery Structure
10	City of Rialto Turnout	Water Delivery Structure
11	County Flood Control Grove Turnout	Water Delivery Structure
12	Crafton Bouffloun Box Turnout	Water Delivery Structure
13	Crafton East Weir Turnout	Water Delivery Structure
14	Crafton Reservoir	Reservoir
15	Crafton Ungar Turnout	Water Delivery Structure
16	District Warehouse	Warehouse Building
17	East Branch Extension	Pipeline
18	East Branch Extension Pump Stations	Pump Station (4)
19	East Valley Headquarters Turnout	Water Delivery Structure
20	East Valley Turnout	Water Delivery Structure
21	Edwards Pipeline Turnout	Water Delivery Structure
22	Foothill Pipeline	Pipeline
23	Foothill Pump Station	Pump Station
24	Greenspot Forebay	Water Intake Structure
25	Greenspot Meter Station	Meter Station
26	Greenspot Pipeline	Pipeline
27	Line Valve 1	Isolation Valve
28	Line Valve 2	Isolation Valve
29	Line Valve 3	Isolation Valve

ID	FACILITY NAME	FACILITY TYPE
30	Lytle Creek Turnout	Water Delivery Structure
31	Mill Creek Spreading Turnout	Water Delivery Structure
32	Morton Canyon Connector	Pipeline
33	Multi-Zone Dewatering Wells	Well
34	Newport Ave Turnout	Water Delivery Structure
35	Ninth Street Well Complex	Well (2)
36	North Fork Turnout	Water Delivery Structure
37	Perris Street Well	Well
38	Redlands Pump Station	Pump Station
39	Riverside-Highland Turnout	Water Delivery Structure
40	San Bernardino Ave Well	Well
41	Santa Ana Low Turnout	Water Delivery Structure
42	SARC - Bear Valley Sandbox Turnout	Water Delivery Structure
43	SARC Pipeline	Pipeline
44	Sweetwater Turnout	Water Delivery Structure
45	Tate Pump Station	Pump Station
46	Tate Treatment Plant Turnout	Water Delivery Structure
47	Tres Lagos Turnout	Water Delivery Structure
48	Lipper Mill Creek Meter Station	Meter Station
49	Lipper Mill Creek Pickup	Water Intake Structure
50	Waterman Turnout	Water Delivery Structure
51	West Valley Turnout	Water Delivery Structure
52	Wilson Basins Turnout	Water Delivery Structure
53	Yucaipa Lakes Pump Station	Pump Station
54	Yucaipa Lakes Turnout	Water Delivery Structure
55	Yucaipa Pipeline	Pipeline
56	Yucaipa Regional Park Dams	Dam (3)
57	Yucaipa Valley Water District Turnout	Water Delivery Structure
58	Zanja-Tate Meter Station	Meter Station

Table 4-5. District Critical Facilities List.

4.11 Vulnerability Assessment

IFR
§201.6(c)(2)(ii)(B):

[The plan should describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(I)(A) of this section and a description of the methodology used to prepare the estimate ...

Explanation:

Describing vulnerability in terms of dollar losses provides the community and the State with a common framework in which to measure the effects of hazards on assets. The plan should include an estimate of losses for the identified vulnerable assets. An estimate should be provided for each hazard, and should include, when resources permit, structure, contents, and function losses to present a full picture of the total loss for each asset.

4.11.1 Methodology

This section serves to identify each hazard confronting the District and its vulnerabilities to that hazard. Hazard maps were overlaid with facility and census maps to estimate impacts. The facility replacement costs were calculated using the District's insurance replacement values and engineering estimates for construction/repair of facilities.

4.11.2 Earthquake

Population: Approximately 100 percent of the District's population is vulnerable.

Critical Facilities: All of the District's facilities are subject to a high degree of earthquake shaking and are in close proximity to major faults (figure 4-1). 100 percent of the District's critical facilities are vulnerable.

Estimated Losses: The capital facility loss is expected to be approximately \$95.6M (table 4-6).

History: During the past 5 years, there have not been any earthquakes events that have damaged any District facilities.

FACILITY NAME	UNIT	QTY (ft)	REPLACEMENT COST	% DAMAGED	DAMAGE (\$)
Administrative Office			\$5,500,000	30%	\$1,650,000
Badger Turnout			\$270,000	10%	\$27,000
Baseline Feeder Pipeline	\$700	5000	\$3,500,000	100%	\$3,500,000
Baseline Feeder Pipeline South			\$100,000	100%	\$100,000
Bear Valley Highline Boullioun Turnout			\$30,000	30%	\$9,000
Bear Valley Highline Connector Turnout			\$70,000	100%	\$70,000
Central Feeder			\$2,000		\$100,000
Citrus Pump Station Well			\$500,000	10%	\$50,000
City Creek Turnout			\$270,000	50%	\$135,000
County Flood Control Grove Turnout			\$90,000	10%	\$9,000
Crafton Boullioun Box Turnout			\$30,000	10%	\$3,000
Crafton East Weir Turnout			\$30,000	10%	\$3,000
Crafton Reservoir			\$12,000,000	10%	\$1,200,000
Crafton Ungar Turnout			\$60,000	10%	\$6,000
District Warehouse			\$1,000,000	5%	\$50,000
Devil Canyon-Azusa Pipeline	\$1,000	2600	\$2,600,000	100%	\$2,600,000
East Branch Extension			\$1,200		\$100,000
East Branch Extension Pump Stations(4)			\$36,000,000	50%	\$18,000,000
East Valley Headquarters Turnout			\$40,000	50%	\$20,000
East Valley Turnout			\$210,000	50%	\$105,000
Edwards Pipeline Turnout			\$90,000	100%	\$90,000
Foothill Pipeline	\$2,000	6800	\$13,600,000	100%	\$13,600,000
Foothill Pump Station			\$12,000,000	10%	\$1,200,000
Greenspot Forebay			\$1,000,000	100%	\$1,000,000
Greenspot Meter Station			\$180,000	100%	\$180,000
Greenspot Pipeline	\$480	10000	\$4,800,000	100%	\$4,800,000
Line Valve 1			\$4,000,000	50%	\$2,000,000
Line Valve 2			\$4,000,000	50%	\$2,000,000
Line Valve 3			\$2,000,000	25%	\$500,000
Lytle Creek Turnout			\$1,500,000	10%	\$150,000
Mill Creek Spreading Turnout			\$60,000	10%	\$6,000
Morton Canyon Connector	\$420	2600	\$1,092,000	100%	\$1,092,000
Multi-Zone Dewatering Wells			\$2,700,000	5%	\$135,000
Newport Ave Turnout			\$90,000	10%	\$9,000
Ninth Street Well Complex			\$6,000,000	10%	\$600,000
North Fork Turnout			\$270,000	100%	\$270,000
Redlands Pump Station			\$20,000,000	5%	\$1,000,000
Riverside-Highland Turnout			\$90,000	100%	\$90,000
Rialto Turnout			\$90,000	100%	\$90,000
San Bernardino Ave Well			\$1,200,000	10%	\$120,000
Santa Ana Low Turnout			\$390,000	10%	\$39,000
SARC - Bear Valley Sandbox Turnout			\$90,000	100%	\$90,000
SARC Pipeline	\$420	2600	\$1,092,000	100%	\$1,092,000
Sweetwater Turnout			\$270,000	100%	\$270,000
Tate Pump Station			\$12,000,000	10%	\$1,200,000
Tate Treatment Plant Turnout			\$3,000,000	10%	\$300,000
Tres Lagos Turnout			\$128,000	10%	\$12,800
Upper Mill Creek Meter Station			\$10,000,000	100%	\$10,000,000
Upper Mill Creek Pickup			\$2,000,000	100%	\$2,000,000
Waterman Turnout			\$390,000	50%	\$195,000
West Valley Water District Turnout			\$150,000	100%	\$150,000
Wilson Basins Turnout			\$70,000	10%	\$7,000
Yucaipa Lakes Pump Station			\$5,000,000	1%	\$50,000
Yucaipa Lakes Turnout			\$500,000	10%	\$50,000
Yucaipa Pipeline	\$700	12000	\$8,400,000	100%	\$8,400,000
Yucaipa Regional Park Dams (3)			\$15,000,000	100%	\$15,000,000
Yucaipa Valley Water District Turnout			\$270,000	10%	\$27,000
Zanja-Tate Meter Station			\$190,000	10%	\$19,000
					\$95,570,800

Table 4-6. Estimated Economic Impacts on Critical Facilities from 8.0 Earthquake

4.11.3 Flooding

Population: Approximately 5 percent of the district's population is located within the flood plain and vulnerable to flooding.

Critical Facilities: Approximately 25 percent of the district's critical facilities are vulnerable (figure 4-4).

The specific critical facilities vulnerable in District are:

Foothill Pipeline at City Creek crossing, Greenspot Pipeline at Mill Creek Crossing, Baseline Feeder Pipeline at Lytle Creek, SARC Pipeline at Santa Ana River; Badger, Rialto, Riverside-Highland, Waterman and Wilson Creek Turnouts.

The District is not a member of the National Flood Insurance Program (NFIP) and is fortunate to not have any identified *repetitive loss properties*.

Estimated Losses: The capital cost to repair/replace the 26,000 feet of pipeline and facilities which lie within the flood zone, is approximately \$15.6M.

History: In 2005, flooding in City Creek undermined the District's Foothill Pipeline. During 2009, the District constructed gabion walls in City Creek to protect the Foothill Pipeline from a 20 year flood. This project was built at a cost of \$500,000. In December 2010, a major flood event destroyed the gabion walls and undermined the pipeline. As a result, the District had to place large boulders to support the pipeline.

4.11.4 Landslide

Population: Approximately <1 percent of the district's population is vulnerable.

Critical Facilities: Approximately 10 percent of the district's critical facilities are vulnerable.

The specific critical facilities vulnerable in District are:

The Foothill Pipeline and turnout facilities which are located at the foot of steep slopes or built on steep grades, including the Badger and Northfork Turnouts, in addition to the Morton Canyon access road.

Estimated Losses: The capital cost to replace the Foothill Pipeline is approximately \$2,000 per foot of pipeline. The replacement cost for a turnout facility is approximately \$270,000

History: In 2005, a mudslide damaged to Badger Turnout. The cleanup and repair cost the District \$15,000.

4.11.5 Wildfires

Population: Approximately 4,100 of the District's population reside within fire hazard zones and are vulnerable.

Critical Facilities: Approximately 80 percent of the critical facilities are vulnerable (figure 4-4).

The specific critical facilities vulnerable in San Bernardino Valley Municipal Water Districts are:

Almost all of the District's facilities are within areas that burn based on the region's fire hazard zones (See Figure 4-8). Fortunately, most of these facilities are buried and will suffer only limited damage. For the above ground facilities, the District attempts to construct them with mitigation efforts in mind.

Estimated Losses: The capital cost to repair/replace the above ground facilities within the regions fire hazard zones is approximately \$27.5M.

History: During the past 5 years, there were 2 wild fires which could threatened District facilities. Fortunately, the Greenspot (2012) and Mill (2013) wild fires did not cause damage to District facilities (See Figure 4-7).

4.11.6 Drought

Population: Approximately 100 percent of the district’s population is vulnerable.

Critical Facilities: Approximately 5 percent of the community’s critical facilities are vulnerable

The specific facilities vulnerable are the Ninth Street, Perris Street and San Bernardino Avenue wells which supply local water for the District to sell. During a drought, the levels in the wells become lower and therefore more pumping is required (increasing the pumping costs) and many wells are not able to produce as much water during the peak demands.

Estimated Losses: Because the District receives revenue from property taxes, drought does not have an extreme adverse impact on its revenue.

History: The District’s investment in supplemental water from the State Water Project helps the area make it through droughts. The District also relies on local supplies that are stored as groundwater during wet years. The District has plans to capture more stormwater and to recycle more wastewater to help overcome future droughts.

Section 5 – Community Capability Assessment

This section describes the resources (staffing, agencies, departments, equipment) and tools (existing plans, policies, regulations, and ordinances), the District has in place that can assist promote and implement mitigation actions in the service area. These capabilities generally fall into the following broad categories:

- Agencies and People
- Existing Plans
- Regulations, Codes, Policies, and Ordinances
- Mitigation Programs and Projects
- Fiscal Resources

5.1 Agencies and People

The District is responsible for long-range water supply management, including importing supplemental water, and is part of two Watermasters that keep an accounting of groundwater and surface water in the area. The District imports water through the SWP and delivers it to retail agencies throughout its service area. The District employs a staff of 22 people. The number of office and field staff is nearly split evenly. The majority of the District is located in Southwestern San Bernardino County and Northern Riverside County (5 percent), within the San Bernardino Valley. The District’s service area includes portions of the Cities of Rialto, Fontana, Grand Terrace, Loma Linda, Redlands, Highland, Yucaipa, and Colton, and unincorporated areas in San Bernardino and Riverside Counties.

5.2 Existing Plans

This section describes the existing plans, policies, and ordinances for San Bernardino Valley Municipal Water District. All of these items were taken into consideration when the Hazard Prioritization Matrix was developed (Table 4-2).

Resolution No. 921. On September 6, 2006 Valley District Board of Directors passed Resolution 921, authorizing District staff to act in the event of an emergency or disaster.

The Upper Santa Ana River Watershed Integrated Regional Water Management Plan (IRWMP) addresses major water management issues for the communities of the Upper Santa Ana River Watershed. San Bernardino Valley Municipal Water District (Valley District), as the regional water agency, agreed to lead the planning effort and received a grant from the California Department of Water Resources (DWR) to prepare this plan. The main benefit of the plan is the development of a process for managing the San Bernardino Basin Area. A secondary benefit is to identify regional projects and to receive grant funding for these projects. The plan is being carefully developed through the participation of water managers and stakeholders. Two management objectives have been developed during the planning process. The first management objective is to improve water reliability during drought periods and reduce liquefaction. The second management objective is to protect water quality and maximize conjunctive use opportunities. The first IRWMP was developed in 2007 and updated in 2015. The IRWMP is used as an implementation measure to address the drought hazard identified in the HMP (Section 4.7.5).

In the future, to keep the IRWM Plan current, it should be refined as necessary, but no less than every five years. These refinements will be the result of knowledge gained through implementation of the IRWM Plan. Reviews and updates will focus on analyzing new information developed since the adoption of the previous IRWM Plan and the need for specific water management actions. The reviews would identify areas where the IRWM Plan has been successfully implemented, as well as areas where deficiencies are apparent.

The Enhanced Recharge in Santa Ana River Basins Project. This project enables the District and its partner, Western Municipal Water District, to capture up to 200,000 acre-feet of stormwater from the Santa Ana River each year, which mitigates the drought hazard (Section 4.7.5).

Emergency Operations Plan (EOP). This plan details how the District will respond in the event of an emergency or disaster. Potential threats include:

- Operational incidents, such as fire or bacteriological contamination of water associated with District facilities.

- Outsider malevolent acts, such as threatened or intentional contamination of water, intentional damage/destruction of facilities, detection of an intruder or intruder alarm, bomb threat, or suspicious mail.

- Natural disasters, such as earthquakes, floods, or wildfires.

In 2016/17, the District's Emergency Planning Committee updated the EOP and all District staff installed the EOP onto their mobile devices. The EOP is reviewed and updated on an annual basis.

San Bernardino Valley Regional Urban Water Management Plan (RUWMP). The RUWMP was also developed collaboratively with many of the same agencies that developed the IRWMP. The general focus of the RUWMP is to assess whether water supplies are adequate to meet the needs during a single year drought, multiple year drought and/or catastrophic interruption in supplies. The first RUWMP was prepared in 2010 and is updated every 5 years. The last update was in 2015. Each update contains a new set of recommendations based on literature review and discussions with water purveyors with the goal of enhancing disaster preparedness.

Homeland Security Presidential Directive (HSPD) -5. On February 28, 2003, the President issued HSPD-5, which directs the Secretary of Homeland Security to develop and administer a National

Incident Management System (NIMS). HSPD-5 requires all federal departments and agencies to adopt and implement the NIMS, and requires state and local jurisdictions to implement the NIMS to receive federal preparedness funding. Future refinement to the NIMS will evolve as policy and technical issues are further developed and clarified at the national level. This may well result in additional requirements as to what will constitute continuous full NIMS compliance in the future.

5.3 Regulations, Codes, Policies, and Ordinances

Resolutions have been passed that provide for the provision of supplemental water to mitigate drought conditions to all retail entities within the District. The first of these was passed in 1956 (Resolution 25). Over 1000 resolutions have been signed by the District Board of Supervisors with the majority serving to ensure or enhance the provision of water to the region.

5.4 Mitigation Programs

In the past, when conditions warranted, the District implemented a Pilot Dewatering Program to help mitigate the threat of liquefaction in the Area of Historic High Groundwater in the San Bernardino Basin Area (south San Bernardino). Since that time, the Basin Technical Advisory Committee (BTAC) has taken on the responsibility to monitor high groundwater conditions on a monthly basis and has developed a dewatering plan that could be implemented in the future, should high groundwater conditions return.

Each District employee has been provided with a Disaster Preparedness Kit for a family of four for five days. Each kit contains food, lighting/warmth, cooking equipment, tools, four personal hygiene kits, support items, radio with batteries. Each kit is packaged in a duffel bag.

5.5 Fiscal Resources

The District's fiscal resources are acquired through:

- 1) the property tax base of residents within the jurisdictional bounds
- 2) receipt of federal and state grants
- 3) revenue from water sales
- 4) bond measures

All of the above resources are part of the District's State Water Contract and General Funds, which have a combined annual budget of \$121.9M.

Section 6 – Mitigation Strategies

IFR

§201.6(c)(3):

The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve its existing tools.

6.1 Overview

The purpose of this analysis was to identify projects (actions) that helped the District to meet the Goals and Objective for each priority hazard. By going through this process, the District has identified hazards in our community, assessed which hazards pose the most significant risk, and identified projects to help reduce and/or eliminate the risk.

6.2 Mitigation 5-Year Progress Report

As discussed in Section 3.6, the District's planning team reviewed each of the projects from the 2011 HMP and discussed the status of each project and the reasons for why they had or had not been implemented. This updated 2017 HMP identifies the completed, deleted, or deferred actions or activities from the 2011 approved plan as shown in Table 6-1, as a benchmark for progress. The plan update provides an opportunity for the District to reconsider the range of specific actions.

Further, the updated plan includes in its prioritization, any new mitigation actions identified since the previous plan was approved or through the plan update process.

Project#	Mitigation Project	Status	Comments	Hazard
10-01	Lytic Creek Grading and Riprap	On-going		Flood
10-02	Badger Turnout - Grading and Diversion Wall	On-going		Flood, Landslide
10-03	Line Valves (3) Replacement/Vault Installation	On-going		Earthquake
10-04	Clear Brush (Annually)	Complete		WildFire
10-05	Yucaipa Lakes Dam Improvements	Dropped	Unnecessary; Flow from dam failure would be contained within channel	Flood
10-06	City Creek Channel Improvements	On-going	Working with Army Corps of Engineers	Flood
10-07	Mill Creek Channel Improvements	On-going	Temporary fix complete; long-term fix with Mill Creek Pipeline Replacement	Flood
10-08	Carriage Hill Drainage Control	Dropped	Low priority	Flood, Landslide
10-09	Mill Creek Pipeline Replacement	On-going		Earthquake
10-10	Morton Canyon - Road/Slope Stabilization	On-going		Flood, Landslide
10-11	North Fork Turnout - Grading and Diversion Wall	On-going		Flood, Landslide
10-12	Channel improvements @ SAR	On-going		Flood
10-13	Crafton Tanks - Seismic Valve Retrofit	Dropped	Low priority	Earthquake
10-14	Yucaipa Valley Turnout - Seismic Valve Retrofit	Dropped	Low priority	Earthquake
10-15	Foothill Surge Riser Erosion Control	On-going		Flood

Table 6-1. Status of 2011 Hazard Mitigation Projects.

6.3 Identifying the Problem

Hazard	Problem Description
Earthquake	Most of the District's Foothill Pipeline lies within the Alquist-Priolo Earthquake Zone. Additionally, there are 19 locations where a fault crosses a District pipeline.
Landslide	The District's Foothill Pipeline lies adjacent to the steep slopes along foothills of the San Bernardino Mountains where landslides are known to occur.

Flooding	3 major rivers cross District pipelines (Lytle Creek, Mill Creek and Santa Ana River)
Wildfire	Some of the District's pipelines and facilities are located in undeveloped areas where there is ample brush to fuel wildfires.
Drought	Southern California has a long history of droughts.

6.4 Mitigation Goals, Objectives, and Projects

IFR
§201.6(c)(3)(i): [The hazard mitigation strategy shall include: a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

Explanation: The community's hazard reduction goals, as reflected in the plan, along with their corresponding objectives, guide the development and implementation of mitigation measures. This section should describe what these goals are and how they were developed. The goals could be developed early in the planning process and refined based on the risk assessment findings, or developed entirely after the risk assessment is completed. They should also be compatible with the goals of the community as expressed in other community plan documents. Although the Rule language does not require a description of objectives, communities are highly encouraged to include a description of the objectives developed to achieve the goals so that reviewers understand the connection between goals, objectives, and activities. The goals and objectives should: - Be based on the findings of the local and State risk assessments; and - Represent a long-term vision for hazard reduction or enhancement of mitigation capabilities.

The process of identifying goals began with a review and validation of the goals and objectives in the District's 2011 HMP. Using the 2011 as the basis, the District's planning team completed an assessment/discussion of whether each of the goals was still valid. This discussion also led to the opportunity to identify new Goals and Objectives.

The profile hazards for the District are earthquake, flooding, landslide, wildfire and drought. While liquefaction was profiled in the 2005 plan, it will not be profiled in this plan, because groundwater levels have lowered. The District will continue to monitor conditions which create liquefaction hazards.

The following section provides an overview of the mitigation goals, objectives, and projects. Each mitigation project/action is described in Table 6-2.

Project#	Mitigation Project	Facility	Cost	Hazard	2011 Project#
15-1	City Creek Channel Improvements	Foothill Pipeline	\$11,000,000	Flood	10-06
15-2	Badger Turnout - Grading and Diversion Wall	Badger Turnout	\$330,000	Flood, Landslide	10-02
15-3	Clear Brush (Annualy)	All in high fire zones	\$110,000	Wild Fire	10-04
15-4	Foothill Pipeline Line Valve Vault Seismic Actuators	Foothill Pipeline	\$1,100,000	Earthquake	10-03
15-5	Enhanced Recharge in Santa Ana River Basins Project	Plunge Pool Pipeline	\$2,200,00	Drought	
15-6	Mill Creek Channel Improvements & Pipeline Replacement	Greenspot Pipeline	\$7,700,000	Flood	10-07
15-7	Morton Canyon Road/Slope Stabilization	Morton Canyon Pipeline	\$500,000	Landslide	10-10
15-8	North Fork turnout Grading and Diversion Wall	Northfork Turnout	\$330,000	Flood, Landslide	10-11
15-9	Foothill Surge Riser Erosion Control	Foothill Pipeline	\$440,000	Flood	10-15
15-10	Baseline Feeder Lytle Creek Grading and Riprap	Baseline Feeder	\$1,100,000	Flood	10-01
15-11	Channel Improvements over SARC Pipeline in SAR	SARC Pipeline	\$5,500,000	Flood	10-12

Table 6-2. 2018 Hazard Mitigation Projects.

The following section provides an overview of the Mitigation Goals and Objectives:

6.4.1 Earthquake

Goal:

To mitigate the effects of seismic activity on District facilities to prevent further damage, such as flooding, that could occur as a result of a pipeline break.

Objectives:

Technologically, there is no way to mitigate against a break in our pipeline during an earthquake event near District pipelines, but there are ways to reduce post-event related damages to others (such as damage due to flooding). This includes the installation of:

- 1) Installation of seismically activated actuators that automatically close valves in a seismic event.
- 2) SCADA technology that allows remote operation of facilities following an emergency
- 3) After emergency automatically starting remote electrical power.

These three items will each be required at the three line valves along the Foothill Pipeline.

These improvements could reduce damage, or destruction, of our facilities. Hydraulic energy dissipation (in which the water contained in the pipeline will act as a battering ram against the valves) will occur once any of our line valves are closed. To prevent this, operation of our valves must be operated quickly and efficiently to prevent additional breaks that are not a direct result of the earthquake event.

Mitigation Projects:

15-4. Foothill Pipeline Line Valve Vault Seismic Actuators

6.4.2 Flooding

Goal:

Provide adequate flood protection to minimize hazards and structural damage.

Objectives:

- 1) Construct "above ground" facilities outside of the 100 year flood zone.
- 2) Protect "above ground" facilities with diversion walls and protect pipelines at stream crossings with channel improvement projects.

Mitigation Projects:

15-1. City Creek Channel Improvements

15-2. Badger Turnout Grading and Diversion Wall

15-6. Mill Creek Channel Improvements

15-8. Northfork Turnout Grading and Diversion Well

15-9. Foothill Surge Riser Erosion Control

15-10. Baseline Feeder Lytle Creek Grading and Riprap

15-11. Santa Ana River Pipeline Channel Improvements

6.4.3 Landslide

Goal:

To mitigate the effects of landslide activity on District facilities which are located on or near slopes.

Objectives:

It is the intent of this District not to construct facilities on slopes or at the base of slope. However, this option is not always (has not always been) available during pipeline design/construction. Retaining walls will protect District facilities against damage caused by a landslide.

Mitigation Projects:

15-2. Badger Turnout Grading and Diversion Wall

15-7. Morton Canyon Road/Slope Stabilization

15-8. Northfork Turnout Grading and Diversion Wall

6.4.4 Wildfire

Goal:

To mitigate the effects of wildfire activity on District facilities or restrict the ability to transmit water as a result of damage to District facilities.

Objectives:

- 1) Better management of vegetation growth and ensure design of defensible spaces within all property by following recognized landscaping guides for the area (http://www.calmast.org/mast/public/pdf/landscape_guide.pdf)
- 2) Attainment of fee ownership of all properties for which the District has facilities to allow for District control of vegetation management.
- 3) Educate adjoining neighbors as to the importance of vegetation management near our facilities; participate in vegetation management activities on neighboring properties as necessary.
- 4) Examine and protect all potential ignition sources within wildfire prone areas (including electrical conductors that may be sparked by wildlife).
- 5) Replace plastic conduits with metal buried deep and insulate where near or above ground surface.
- 6) Examine and protect all burnable facilities by erecting block wall barriers.
- 7) Installation of additional hydrants for local fire departments use during fires; addition of pressure reducing valves behind existing hydrants.
- 8) Installation of dipping and mixing tanks and appurtenant plumbing for aerial fire combat use.

Mitigation Projects:

15-3. Clear Brush Annually

6.4.5 Drought

Goal:

To reduce and hopefully eliminate the economic hardships and any possible loss of life, livelihood, or health caused by drought

Objectives:

- 1) Continue to provide raw water as a supplemental source from the State Water Project (import) and native sources throughout the District.
- 2) Work towards more effective management of local groundwater supplies.
- 3) Work to acquire additional surface water rights as they become available for use throughout the District

Mitigation Plans:

Upper Santa Ana River Watershed Integrated Regional Water Management Plan

San Bernardino Valley Regional Urban Water Management Plan

15-5. Enhanced Recharge in Santa Ana River Basins Project

Active Recharge in Tributaries of the Santa Ana River Project

Change in Groundwater Storage Report

Note: All of the above projects are on-going.

6.4.6 Liquefaction

Goal:

To mitigate damage to facilities and structures that can be caused by high groundwater. Since groundwater levels have lowered, Liquefaction is not currently a hazard for the District.

Objectives:

Groundwater conditions which create the potential for liquefaction are monitored on a monthly basis.

Mitigation Plans:

Basin Technical Advisory Committee Dewatering Plan

6.4.7 Climate Change

Goal:

Reduce the impacts of climate change on the District and limit human activities than change the atmosphere's makeup

Objectives:

Meet greenhouse gas (GHG) reductions set forth by the Clean Air Act.

Mitigation Plans:

Continue working with South Coast Air Quality Management district to meet GHG reductions targets.

6.5 Mitigation Priorities

<i>IFR</i> <i>§201.6(c)(3)(ii):</i>	[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard with particular emphasis on new and existing buildings and infrastructure.
<i>Explanation:</i>	The local jurisdiction should list potential loss reduction activities it has identified in its planning process and describe its approach to evaluating these activities to select those that achieve the community's goals and objectives. Particular attention should be given to those mitigation activities that address existing and new buildings and infrastructure. Not all of the mitigation measures identified may ultimately be included in the community's plan due to prohibitive costs, scale, low benefit/cost analysis ratios, or other concerns. The process by which the community decides on particular mitigation measures must be described. The information will also be valuable as part of the alternative analysis for the National Environmental Policy Act (NEPA) review required if projects are federally funded.

This section serves to identify and prioritize the Proposed Projects in the community.

The District considered social, technical, administrative, political, legal, economic and environmental factors when weighing the costs to the benefits of prioritizing one action over another. Simple mitigation projects with available funding were given higher prioritization than the more the complex and costly projects. This is to ensure that the District completes projects in the near future that address immediate needs without having long-term projects delay these short-term projects. The following table defines these priorities.

Table 6-4 represents the summation of all potential mitigation projects related to all hazards threatening San Bernardino Valley Municipal Water District facilities.

6.6 Mitigation Strategy

<i>IFR</i> <i>§201.6(c)(3)(iii):</i>	[The mitigation strategy section shall include] an action plan describing how the actions identified in section (c) (3) (ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.
<i>Explanation:</i>	After outlining the mitigation measures to be included in the strategy, the local government should describe the method used to prioritize the order in which they intend to implement them. Prioritization shall include an emphasis on cost-benefit analysis with a focus on how effective the

actions are expected to be with respect to their cost. The action plan should also identify those policies, programs, or resources that can be used to implement the strategy. This section should include the implementation timeline, the funding sources, when possible; and the agency responsible for carrying out the actions.

For the successful mitigation of hazards identified in this plan and to meet the District’s goals within a reasonable time frame, an implementation strategy has been developed. The strategy includes an identification of the objectives identified in Section 6.3, development of planning level cost estimates and a time frame for implementation. The benefits of proposed projects were weighed against estimated costs as part of the project prioritization process. The benefit/cost analysis was not of the detailed variety required by FEMA for project grant eligibility under the Hazard Mitigation Grant Program (HMGP) and Pre-Disaster Mitigation (PDM) grant program. A less formal approach was used because some projects may not be implemented for up to 10 years, and associated costs and benefits could change dramatically in that time. Therefore, a review of the apparent benefits versus the apparent cost of each project was performed. Parameters were established for assigning subjective ratings (high, medium, and low) to the costs and benefits of these projects.

Cost ratings were defined as follows:

- High—Greater than \$5,000,000
- Medium—\$1,000,000 - \$5,000,000
- Low—Less than \$1,000,000

Benefit ratings were defined as follows:

- High—Project will provide an immediate reduction of risk exposure for life and property.
- Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
- Low—Long-term benefits of the project are difficult to quantify in the short term.

Using this approach, projects with positive benefit versus cost ratios (such as high over high, high over medium, medium over low, etc.) are considered cost-beneficial and are prioritized accordingly.”

Table 6-3 is a matrix summarizing the results of the cost-benefits analysis. The “red shaded” boxes are the top tier ranked projects and the “yellow shaded” boxes next tier ranked projects and the white boxes are the lowest ranked. As can be seen from the table, the projects in the “red” boxes are the District’s priority (or high profile) projects, while the projects in the “yellow” boxes are less critical, however, are important projects for the District.

		<i>Benefit</i>		
		High	Medium	Low
Cost	Low	Clear Brush Annually	Badger TO Diversion Wall	Morton Road/Slope Stabilization Foothill SR Erosion Control North TO Diversion Wall
	Medium	Enhanced Recharge In SAR Basins Foothill Seismic Actuators		Baseline Feeder Grading/Riprap
	High	City Creek Channel Imp	Mill Creek Channel Imp	Channel Imp SARC Pipeline

Table 6-3. Project Prioritization Matrix

The implementation strategy focuses on the high priority mitigation projects that can be implemented during the five-year plan cycle, as shown in Table 6-4. The implementation strategy includes the project, facility, cost, hazard and timeframe for completion. The funding source and lead agency for all projects is the San Bernardino Valley Municipal Water District.

Priority	Project#	Mitigation Project	Facility	Cost	Hazard	Est. Completion Date
High	15-1	City Creek Channel Improvements	Foothill Pipeline	\$11,000,000	Flood	2022
High	15-2	Badger Turnout - Grading and Diversion Wall	Badger Turnout	\$330,000	Flood, Landslide	2019
High	15-3	Clear Brush	All in high fire zones	\$110,000	Wild Fire	Annually
High	15-4	Foothill Pipeline Line Valve Vault Seismic Actuators	Foothill Pipeline	\$1,100,000	Earthquake	2019
High	15-5	Enhanced Recharge in Santa Ana River Basins - Phase 1a	Plunge Pool Pipeline	\$2,200,000	Drought	2019
Med	15-6	City Creek Channel Improvements & Pipeline Replacement	Greenspot Pipeline	\$7,700,000	Flood	2022
Med	15-7	Morton Canyon Road/Slope Stabilization	Morton Canyon Pipeline	\$500,000	Landslide	2019
Med	15-8	Northfork turnout Grading and Diversion Wall	Northfork Turnout	\$330,000	Flood, Landslide	2019
Med	15-9	Foothill Surge Riser Erosion Control	Foothill Pipeline	\$440,000	Flood	2019
Low	15-10	Baseline Feeder Lytle Creek Grading and Riprap	Baseline Feeder	\$1,100,000	Flood	2021
Low	15-11	Channel Improvements over SARC Pipeline in SAR	SARC Pipeline	\$5,500,000	Flood	2022

Table 6-4 Implementation strategy for 2018-2023

IFR
 §201.6(c)(3)(iv): For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

Explanation: The multi-jurisdictional plan should contain a section that links the proposed mitigation actions to the applicable jurisdictions. Any jurisdiction within the planning area requesting approval or credit for the Mitigation Plan must be able to point to specific actions to be pursued.

The District is not participating in any multi-jurisdictional mitigation plans.

Section 7 – Plan Maintenance

IFR
 §201.6(c)(4)(i): [The plan maintenance process shall include a section describing the] method and schedule of monitoring, evaluating and updating the mitigation plan within a five-year cycle.

Explanation: The local jurisdiction should describe the system it has established to monitor the plan (this system may include periodic reports by agencies involved in implementing projects or activities; site visits, phone calls, and meetings conducted by the person responsible for overseeing the plan; and the preparation of an annual report that captures the highlights of the

previously mentioned activities). The local jurisdiction plan should also include a description of how, when, and by whom the plan will be evaluated, and should include the criteria used to evaluate the plan. The evaluation should assess, among other things, whether:

- The goals and objectives address current and expected conditions.
- The nature or magnitude of risks has changed.
- The current resources are appropriate for implementing the plan.
- There are implementation problems, such as technical, political, legal or coordination issues with other agencies.
- The outcomes have occurred as expected.
- The agencies and other partners participated as proposed.

Ideally, the Plan should be evaluated on an annual basis to determine the effectiveness of programs, and to reflect changes in land development or programs that may affect mitigation priorities. The plan should describe how, when, and under what conditions the plan will be updated and what agencies and interested parties will participate in the update. If plans are not updated annually, the plan should describe the schedule chosen by the community and provide an explanation for that schedule.

As a living document it is important that this plan becomes a tool in the District's resources to ensure reductions in possible damage from a natural hazard event. This section discusses plan adoption, implementation, monitoring, evaluating, and updating the HMP. Plan implementation and maintenance procedures will ensure that the HMP remains relevant and continues to address the changing environment in the District. This section describes the incorporation of the HMP into existing District planning mechanisms, and how the District staff will continue to engage the public.

7.1 Monitoring, Evaluating and Updating the Plan

The District will continue to monitor and evaluate the Plan period on an annual basis and will be updated within the 5 year time period. As the District monitors these hazards and learn how to mitigate more efficiently, additional projects may be developed time. The current goals and objectives; capital improvement projects and mitigation efforts will be reviewed and measured against the expected outcomes during this annual review; not limited to:

- The nature, magnitude, and/or type of risks have changed.
- The current resources are appropriate for implementing the plan.
- There are implementation problems, such as technical, political, legal, or coordination issues with other agencies.
- The outcomes have occurred as expected
- The agencies and other partners participated as originally proposed.
- Federal, State or local laws and regulations mandate changes.

7.1.1 Plan Adoption

To comply with DMA 2000, the Valley District Board of Directors has officially adopted the 2018 Valley District HMP. The adoption of the 2018 HMP recognizes the District's commitment to reducing the impacts of natural hazards within the District's service area. A copy of the 2018 HMP adoption resolution is included in Appendix A.

7.1.2 Implementation

Over time, Implementation Strategies will become more detailed and the Valley District's mitigation planners will work to provide more detail for priority Mitigation Actions. In conjunction with Mitigation Strategies outlined in Section 6, the Mitigation Project Action Reporting Form worksheet provided at

the end of this Section will be extremely useful as a plan of record tool for updates. Each strategy worksheet provides individual steps and resources need to complete each mitigation action.

7.1.3 Process/Schedule

Plan modifications will be phased in, over time. The Plan will be evaluated annually by the District's Emergency Planning Committee and updated, if necessary. The Emergency Planning Committee will also review the status of mitigation projects on a quarterly basis and any updates will be recorded (Mitigation Project Action Reporting Form) and reported during management staff meetings. Every five years, Valley District will be formally submit the updated Plan for approval. There will be a link under "Reports" webpage on the District website to provide interested parties access to the current Hazard Mitigation Plan. A list of individuals will be maintained as invitees to future planning meetings.

7.2 Incorporation into Existing Planning Mechanisms

<p><i>IFR</i> §201.6(c)(4)(ii):</p>	<p>[The plan shall include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans when appropriate.</p>
<p><i>Explanation:</i></p>	<p>Jurisdictions should indicate how mitigation recommendations will be integrated into job descriptions, comprehensive plans, capital improvement plans, zoning and building codes, site reviews, permitting, and other planning tools, where such tools are the appropriate vehicles for implementation. Communities that do not have a comprehensive plan, or other similar planning mechanisms, should explain how the mitigation recommendations would be implemented. Further, for certain mitigation actions that may use other means of implementation, these other tools should be described.</p>

Implementation of mitigation measures will occur at the planning, design, and operation phases of new and replacement projects.

The District currently documents the capital improvements planning through the Integrated Regional Water Management Plan (IRWMP), which was adopted by the District on December 5, 2007. The IRWMP was updated in 2015 and adopted by the District on February 7, 2015. Some of the IRWMP capital improvements projects are also included in the HMP. The IRWMP is reviewed/updated during bi-monthly meetings of the Basin Technical Advisory Committee (BTAC).

After the District officially adopts the HMP, the District's Emergency Planning Committee will continue to serve as the "sounding board" for mitigation initiatives. Additionally, the capital improvement planning that occurs in the IRWMP will contribute to the goals in the Hazard Mitigation Plan. The Emergency Planning Committee will work with the capital improvement planners to implement high benefit/low cost mitigation projects.

7.3 Continued Public Involvement

IFR

§201.6(c)(4)(iii):

[The plan maintenance process shall include a] discussion on how the community will continue public participation in the plan maintenance process.

Explanation:

The plan should describe what opportunities the broader public (i.e., stakeholders who are not part of the planning team) would have during the plan's periodic review to comment on the progress made to date and the proposed plan revisions. Plans should describe the mechanisms for keeping the public involved (e.g., holding strategic meetings, posting the proposed changes to the plan on the web, etc.).

As discussed in Section 3.3, the District will continue to involve the public during the plan maintenance process over the next five years. The District hosts bi-monthly BTAC meetings as part of the IRWMP. The BTAC meetings are open to the public. As part of the approval process the CIP is presented to the District's Board of Directors in an open public meeting and by virtue of this, progress towards achieving the District's goals and objectives identified in the hazard mitigation plan will also be open for public review and comment.

Information provided on the District's home page will allow interested parties to continue to access the District's Hazard Mitigation Plan. This link will remain a viable tool for the public to reach us as well as District staff to reach the public. The District will continue to provide educational information to the public on our website to aid in conserving water to keep people informed of drought and other hazards.

Mitigation Project Action Reporting Form

Progress Report Period: _____ to _____
 (date) (date)

Project Title: _____ Project ID# _____

Responsible Agency: _____

Address: _____

City: _____

Contact Person: _____

Phone#: _____ Email address: _____

List Supporting Agencies and Contacts: _____

Total Project Cost: _____

Funding Source: _____

Anticipated Cost Overrun/Underrun: _____

Date of Project Approval: _____ Start date of the project: _____

Anticipated completion date: _____

Description of the Project (include a description of each phase, if applicable, and the time frame for completing each phase): _____

<i>Milestones</i>	<i>Completed (✓)</i>	<i>Projected Date of Completion</i>

Section 8 – Works Cited

CA Fire Alliance. (n.d.). *The California Fire Alliance*. CA Fire Alliance.

California, P. P. (2016, July). *California's Latest Drought*. Retrieved from

http://www.ppic.org/main/publication_show.asp?i=1087

USGS. (2004). *Landslide Types and Processes*. <http://pubs.usgs.gov/fs/2004/3072/pdf/fs2004-3072.pdf>.

USGS. (2009).

Appendix A: Planning Process & Public Involvement

From: "San Bernardino County Operational Area"
To: "San Bernardino County Operational Area"; [Sereno, Gin](mailto:Sereno_Gin@sbcounty.gov); [Antonucci, Michael](mailto:Antonucci_Michael@sbcounty.gov); Janet_could@sbcounty.gov; [Sporey, Jeff](mailto:Sporey_Jeff@sbcounty.gov); jeanette_chin@sbcounty.gov; cwolff@sbcounty.gov; kendall@comalinda.ca.gov; Magy_Cheryl@freemant@sanbernateo-ca.gov; rmolina@cityofesperia.us; abird@cityofmontclair.org; Breanna_Glass_fay@cityofredlands.org; apodeska@confire.org; hylie_er@sbcity.org; abird@cityofredlands.org; courtneym@eastvalley.org; oneighbor@seus.com; stimon@mcwd.com; rbay6001@csfb.net; comant@sblood.edu; David_Davis@norma_spencer@sbcounty.gov; Robert_Chason@sbcounty.gov; Dan_Borell@iraces@applevalley.org; prince@yucaipa-valley.org; rmuss@sanmarvel-min.gov; jhul@sbcounty.gov
Subject: Local Hazard Mitigation Plan Update - Kickoff Meeting - DB, BA
Start: Thursday, June 23, 2016 2:00:00 PM
End: Thursday, June 23, 2016 4:00:00 PM
Location: San Bernardino City Unified School District Community Room, 777 N. F Street, San Bernardino, CA 92410

Please be advised, the Kickoff Meeting for the 2016 Local Hazard Mitigation Plan Update has been scheduled as follows:

DATE: Thursday, June 23, 2016
TIME: 2:00 p.m. – 4:00 p.m.
LOCATION: San Bernardino City Unified School District
Community Room
777 N. F Street
San Bernardino, CA 92410

Thank you for participating in the 2016 Local Hazard Mitigation Plan Update Project. This meeting is intended for the LHMP Lead and the person responsible for actually writing the LHMP. A detailed timeline is being prepared and will be available at the kickoff meeting. Please RSVP by electronically accepting this invitation, or by contacting Miles Wagner, Emergency Services Officer, miles.wagner@ees.sbcounty.gov or at (909) 356-3998.

As seating is limited, please do not bring additional staff to the Kickoff Meeting.

Thank you.

San Bernardino County Operational Area
San Bernardino County Fire/Office of Emergency Services

Phone: (909) 356-3998
Fax: (909) 356-3965



Meeting Agenda:

Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) 2016-17 Update

Stakeholder Kick-Off Meeting

DATE: Thursday, June 23, 2016

TIME: 2:00 p.m. – 4:00 p.m.

LOCATION: San Bernardino City Unified School District, Community Room

ADDRESS: 777 N. F Street San Bernardino, CA 92410

- **Welcome and Introductions**
 - Team Roster, Org Chart and POCs
- **Project Overview / Scope**
 - Mitigation Defined
 - SOW / Major Project Components
 - Objectives
 - Planning Process
- **Project Timeline / Schedule**
 - Milestones / Tempo
 - Meetings
- **Risk Assessment Prep**
 - Data Acquisition
- **Next Steps**
- **Wrap Up**

For More Information on please visit www.mitigatehazards.com

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
EMERGENCY PLANNING COMMITTEE

AGENDA

August 24, 2016

11:00 AM

1. Updates
 - a) Initial Damage Estimate (IDE) Training – Aaron
 - i) Status Update – Insert new form into District’s Emergency Plan
 - b) NIMS Compliance - Mike
 - c) Emergency Response Network of the Inland Empire - Bob
 - d) Training/Exercises - Aaron
 - e) EOC Supplies – Tom
 - f) Emergency Plan and Hazard Mitigation Update – Dan/Brent
 - g) Smart phone friendly version of emergency plan - Dan
2. New Business
 - a) Presentation at the Staff Appreciate Day
3. Next Meeting
4. Other
5. Adjourn

San Bernardino Valley Municipal Water District
Emergency Planning Committee
MINUTES

August 24, 2016

Attendance:

Mike Esquer
Tom Holcombe

Wen Huang
Aaron Jones
Bob Tincher

1. Updates:

- a) Initial Damage Estimate (IDE) Training.
 - i) Status Update – Insert new form into District’s Emergency Plan: Aaron has completed the inserts and will coordinate with Dan for distribution of all updated pages to District staff for incorporation into Valley District’s emergency plan.
- b) NIMS Compliance. The NIMS Compliance matrix is believed to be current. Mike brought up a few new NIMS courses offered by FEMA. Mike and Wen will investigate to see if they are applicable and/or required.
- c) Emergency Response Network of the Inland Empire. Bob has attended ERNIE meetings periodically. Additionally, Bob reported that ERNIE meetings have been transitioned into training oriented.
- d) Training/Exercises. Aaron reported that ERNIE is offering specific training sessions for various EOC roles throughout the next several months. Aaron was asked to forward training opportunities to the staff, as needed. Associated training info and schedules has been emailed to all District staff for consideration.
- e) EOC Supplies. Tom reported that EOC supplies have been inventoried and updated for 2016. This has been conducted annually.
- f) Emergency Plan and Hazard Mitigation Update. Brent and Dan attended a meeting recently. Dan may have updates to report at the next meeting.
- g) Smart phone friendly version of emergency plan. Dan has completed the Smart phone friendly version of the emergency plan and distributed to all staff.

2. New Business

a) Presentation at the Staff Appreciation Day – Tom provided a quick overview of the program for the Staff Appreciation Day scheduled for September 7th. As part of the program, Aaron will provide a presentation related to the District’s Emergency Operations Plan and on-going planning efforts.

3. Next Meeting: Wen to schedule a meeting within a month.

4. Other: None.

5. Adjourn

Date	Action Item Description	Responsible Person	Status
3/5/11	Input Valley District resources into ERNIE I-Info	ME	N/A
5/2/16	Insert new Initial Damage Estimate (IDE) form into emergency plan	AI	Complete
5/2/16	Check the status and info needs for ERNIE I-Info	BT	N/A
5/2/16	Review and update EOC supplies	TH	Complete
5/2/16	Develop training/exercise programs, possibly tie together with EOC supplies updates	AJ/TH	
5/2/16	Evaluate efforts for updating the Hazard Mitigation Plan	DB/BA	
5/2/16	Evaluate effectiveness of PDFs as Smart phone friendly version of emergency plan	DB	Complete
8/24/16	Evaluate applicability of new NIMS courses and make recommendations	ME/WH	

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
EMERGENCY PLANNING COMMITTEE

AGENDA

October 12, 2016
11:00 AM

1. Updates
 - a) NIMS Compliance - Mike
 - b) Emergency Response Network of the Inland Empire - Bob
 - c) Training/Exercises - Aaron
 - d) EOC Supplies – Tom
 - e) Emergency Plan and Hazard Mitigation – Dan/Brent
 - f) Smart phone friendly version of emergency plan – Dan
2. New Business
3. Other
4. Adjourn

Meeting This Wednesday

The second meeting for the 2016 Local Hazard Mitigation Plan Update Project is scheduled for Wednesday, October 26, 2016 from 2:00 p.m. to 4:00 p.m. at the Office of Emergency Services - 1743 Miro Way, Rialto, CA.

This meeting is intended for the LHMP Lead and the person responsible for actually writing the LHMP. You may also attend the meeting electronically through a Blue Jeans® webcast. There is construction across the street from OES and **attendees are encouraged to participate electronically**. Participants are encouraged to log in from one telephone line per department or location to allow more people to attend electronically.

To join the meeting on a computer or mobile phone:
<https://bluejeans.com/301032773?src=calendarLink>

Just want to dial in on your phone?

- 1) +1.408.740.7256 (US)
 - +1.888.240.2560 (US Toll Free)
 - +1.408.317.9253 (Alternate number)
 - <http://bluejeans.com/numbers>
 - 2) Enter Meeting ID: 301032773
 - 3) Press #
-



Meeting Agenda:

**Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) 2016-17 Update
Stakeholder Update Meeting**

DATE: Wednesday, October 26, 2016

TIME: 2:00 p.m. – 4:00 p.m.

LOCATION: San Bernardino County Office of Emergency Services

ADDRESS: 1743 Miro Way, Rialto, CA 92376

- **Welcome and Introductions**
- **Project Updates**
 - Milestones / Tempo / Schedule
 - Templates
 - Risk Assessments
 - Hazard Profiles
 - Outreach Material
 - California Planning Regulation Updates
- **Risk Assessment**
 - Section 4 Template
 - Data Acquisition / Edits
- **Next Steps**
- **Wrap Up**

For More Information on please visit www.mitigatehazards.com

From: Brent Adair on behalf of "San Bernardino County Operational Area"
To: Dan Borell; abird@ci.upland.ca.us; @bird@cityofmontclair.org; afreeman@grandterrace-ca.gov; APCWD@ccc.org; apodeska@ccc.org; Barnett, Mary; Blum, Jerry; bmicahels@chinohills.org; beazna.medina@cityofrc.us; Brent Adair; ccontreras@eastvalley.org; cgrant@sbced.edu; cneighbors@ieaa.org; cvoth@chinopd.org; Davis, David; Dwellborn@ci.victorville.ca.us; Fglaso@CITYOFREDLANDS.ORG; fyvie_er@city.org; gaturivian@rc.com; Janet_Gould@avsd.org; jason@mmwd.org; jeannette_chin@chino.k12.ca.us; jhall@vwd.dst.ca.us; jramos@scorleyvalley.org; jrice@yucca-valley.org; jsharkland@yuccaipa.org; jwilliams2@bartowca.org; jzamor@cbwd.org; ladvais@cvwater.com; LaVogue, Larry; Lovell, David; marielenakennedy@icloud.com; mark.crosby@ornitrans.org; mhoffman@placeworks.com; mnuss@sanmanuel-nso.gov; mwagner@sbefire.org; Nagy, Cheryl; nby601@cfa.net; norma_sponcer@sbcs.k12.ca.us; rchaouq@ortarioca.gov; thaller@sawpa.org; Rigney, Jeff; rjahn@bbccsd.org; rmolina@cityofesperanza.us; Robert_Charon@moslineschools.com; salazar_fr@sbcitywater.org; skendall@torralinda-ca.gov; Serrano, Cindy; Maldonado, Eli
Cc: Peterson, Suzanne; Ethan Mobley (ethan@dynamicslearning.co); Brian Greer; Tammy Kulpa; Viser, Wanda
Subject: FW: BlueJeans Meeting Invite
Start: Thursday, December 15, 2016 10:00:00 AM
End: Thursday, December 15, 2016 11:00:00 AM
Location: BlueJeans Video Conferencing Bridge
Attachments: 161215 Agenda Meeting # 3.pdf

-----Original Appointment-----

From: San Bernardino County Operational Area [mailto:SBCOA@oes.sbcounty.gov]
Sent: Wednesday, December 14, 2016 4:13 PM
To: San Bernardino County Operational Area; abird@ci.upland.ca.us; Abird@cityofmontclair.org; afreeman@grandterrace-ca.gov; APCWD@ccc.org; apodeska@ccc.org; Barnett, Mary; Blum, Jerry; bmicahels@chinohills.org; beazna.medina@cityofrc.us; Brent Adair; ccontreras@eastvalley.org; cgrant@sbced.edu; cneighbors@ieaa.org; cvoth@chinopd.org; Davis, David; Dwellborn@ci.victorville.ca.us; Fglaso@CITYOFREDLANDS.ORG; fyvie_er@city.org; gaturivian@rc.com; Janet_Gould@avsd.org; jason@mmwd.org; jeannette_chin@chino.k12.ca.us; jhall@vwd.dst.ca.us; jramos@scorleyvalley.org; jrice@yucca-valley.org; jsharkland@yuccaipa.org; jwilliams2@bartowca.org; jzamor@cbwd.org; ladvais@cvwater.com; LaVogue, Larry; Lovell, David; marielenakennedy@icloud.com; mark.crosby@ornitrans.org; mhoffman@placeworks.com; mnuss@sanmanuel-nso.gov; mwagner@sbefire.org; Nagy, Cheryl; nby601@cfa.net; norma_sponcer@sbcs.k12.ca.us; rchaouq@ortarioca.gov; thaller@sawpa.org; Rigney, Jeff; rjahn@bbccsd.org; rmolina@cityofesperanza.us; Robert_Charon@moslineschools.com; salazar_fr@sbcitywater.org; skendall@torralinda-ca.gov; Serrano, Cindy; Maldonado, Eli
Cc: Peterson, Suzanne; Ethan Mobley (ethan@dynamicslearning.co); Brian Greer; Tammy Kulpa; Viser, Wanda
Subject: BlueJeans Meeting Invite
When: Thursday, December 15, 2016 10:00 AM-11:00 AM (UTC-08:00) Pacific Time (US & Canada)
Where: BlueJeans Video Conferencing Bridge

Please be reminded, a Hazard Mitigation Plan 2016-17 Stakeholder Update Meeting # 3 Conference Call is scheduled for Thursday, December 15, 2016 10:00 a.m. – 11:00 a.m. See attached agenda for tomorrow's meeting.

PARTICIPANT INFORMATION If using your computer for audio, please put it on mute.

To join the meeting on a computer or mobile phone: <https://bluejeans.com/620550695?src=calendarLink>; <<https://bluejeans.com/620550695?src=calendarLink>>

SBCOA has invited you to a video meeting.

Just want to dial in on your phone?

- 1) +1.408.740.7256 (US)
- 2) Enter Meeting ID: 620550695 #
- 3) PRESS # FOR PARTICIPANT

Want to test your video connection?

<http://bluejeans.com/111> <<http://bluejeans.com/111>>



Meeting Agenda:

Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) 2016-17 Update

Stakeholder Update Meeting #3

DATE: Thursday, December 15th

TIME: 10a.m. – 11a.m.

LOCATION: Conference Call

ADDRESS: Virtual

- **Welcome and Introductions**
- **Project Updates**
 - Website updates
 - Milestones / Tempo / Schedule
 - Section 4 Template
- **Risk Assessment**
 - Review and validate vulnerability assessment information.
 - Demonstrate how to insert the provided maps, tables and charts into Section 4: Risk Assessment.
- **Next Steps**
 - Release of Section 5: Community Capabilities Assessment Template (for more information see Phase 3 of the planning process here- <http://mitigatehazards.com/planning-process> or the planning process checklist here- <https://www.dropbox.com/s/5rp1s0hqr8bnf1/Planning%20Phases%20Checklist.docx?dl=0>).
 - Release the template for Section 6: Mitigation Strategy (for more information see Phase 3 of the planning process here- <http://mitigatehazards.com/planning-process> or the planning process checklist here-

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
EMERGENCY PLANNING COMMITTEE

AGENDA

January 12, 2017
10:00 AM

1. Updates
 - a) NIMS Compliance - Mike
 - b) Emergency Response Network of the Inland Empire - Bob
 - c) Training/Exercises - Aaron
 - d) EOC Supplies – Tom
 - e) Emergency Plan and Hazard Mitigation – Dan/Brent
 - f) Smart phone friendly version of emergency plan – Dan
2. New Business
3. Other
4. Adjourn

San Bernardino Valley Municipal Water District
Emergency Planning Committee
MINUTES

January 12, 2017

Attendance:

Dan Borell
Tom Holcombe
Brent Adair

Wen Huang
Aaron Jones
Bob Tincher

1. Updates:

- a) NIMS Compliance. The NIMS Compliance matrix is believed to be current although Brent has a few outstanding courses to take. Bob inquired the status of any new NIMS courses offered by FEMA and whether they are "required" or "recommended". Mike was unavailable to provide an update.
- b) Emergency Response Network of the Inland Empire. Bob reported that the January ERNIE meeting was cancelled and most ERNIE meetings have been transitioned into training oriented.
- c) Training/Exercises. Aaron will coordinate a refresher training session with all staff in February 2017 and plan for an exercise in 6 months.
- d) EOC Supplies. Tom reported that EOC inventories are current and most food supplies are expected to expire in 2017.
- e) Emergency Plan and Hazard Mitigation Plan Update. Dan presented updates to the HMP and solicited inputs primarily on the critical infrastructure list and replacement costs for the facilities. Brent is tasked to update the replacement cost table. On the other hand, Bob will coordinate a meeting to discuss and update the list of critical infrastructure.
- f) Smart phone friendly version of emergency plan. Dan has completed the Smart phone friendly version of the emergency plan and distributed to all staff. This item is considered complete.

2. New Business: None discussed.

3. Next Meeting: Wen to coordinate the next meeting.

4. Other: None.

5. Adjourn

Date	Action Item Description	Responsible Person	Status
1/5/11	Input Valley District resources into ERNIE I-Info	ME	N/A
5/2/16	Insert new Initial Damage Estimate (IDE) form into emergency plan	AJ	Complete
5/2/16	Check the status and info needs for ERNIE I-Info	RT	N/A
5/2/16	Review and update EOC supplies	TH	Complete
5/2/16	Develop training/exercise programs, possibly tie together with EOC supplies updates	AJ/TH	
5/2/16	Evaluate efforts for updating the Hazard Mitigation Plan	DB/BA	
5/2/16	Evaluate effectiveness of PDFs as Smart phone friendly version of emergency plan	DB	Complete
8/24/16	Evaluate applicability of new NIMS courses and make recommendations	ME/WH	

SAVE THE DATE

**Our next virtual meeting is scheduled for
Tuesday, February 14th at 1:30pm.**

Our next meeting will take place from 1:30pm - 2:30pm on February 14th via conference call. We will be discussing the Community Capabilities Assessment and Mitigation Strategy. Questions can be asked in the virtual conference call. We will be sending out information regarding the conference call shortly.

The templates for Sections 5 and 6 are now available at <http://mitigatehazards.com/bdc/sb-docs>. These will be a valuable resource as you integrate your capabilities into mitigation strategies. (This will be explained during our meeting on 2/14).



Meeting Agenda:

**Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) 2016-17 Update
Stakeholder Update Meeting #4**

DATE: Tuesday, February 14th

TIME: 1:30pm – 2:30pm

LOCATION: Conference Call

ADDRESS: Virtual

- **Welcome and Introductions**
- **Project Updates**
 - Schedule
 - Reminder to update flood information
 - Updates to template since original 1/5/17 release
 - Integrating the risk assessment into the capabilities assessment and mitigation strategy
- **Community Capabilities Assessment (Section 5)**
 - Capabilities on a local, regional, state and federal level (e.g. potential programs and grants)
 - Budget highlights
- **Mitigation Strategy (Section 6)**
 - Importance of problem statements for every profiled hazard
 - Determining mitigation goals, objectives and projects for each hazard
 - FEMA's 6 broad categories of mitigation alternatives
 - Prioritizing mitigation actions
- **Next Steps**
 - Draft admin plan for review
 - Push plan out for public review

SAVE THE DATE

Our next stakeholder meeting will be on Tuesday, March 28th from 10:00 am to 11:30 am at OES,1743 Miro Way, Rialto, CA. If you are unable to attend this meeting in person, we will also offer the option to call in via Bluejeans Conference Call Service.

This is your last chance to meet in person with the consultant during this planning process! Please bring your hazard mitigation plan so they can review your progress.

Thank you for your participation in HMP Stakeholder Meeting #4 on February 14th. We answered a lot of great questions and were impressed with everyone's progress as we begin to see the light at the end of the tunnel.



Meeting Agenda:

Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) 2016-17 Update

Stakeholder Update Meeting #5

DATE: Tuesday, March 28th, 2017

TIME: 10:00am – 11:30am

LOCATION: San Bernardino County OES

ADDRESS: 1743 Miro Way, Rialto, CA

- **Welcome and Introductions**
- **Project Updates**
- **Future Implementation (Section 7 Review)**
- **Plan Review and Submittal**
 - Draft Plan Review / Checklists
 - Public Involvement vs. Review
 - Consultant Document Review
 - Submitting your plan to FEMA
- **Upcoming FEMA Hazard Mitigation Training**

Hazard Mitigation Plan Update | www.sbvwmwd.com/Home/Components/News/News/82/14

MUNICIPAL WATER DISTRICT

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NEWS AND PRESS RELEASES

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Hazard Mitigation Plan Update

Valley District has updated its 2011 Hazard Mitigation Plan as required by FEMA. The updated plan is currently under review by the San Bernardino County Office of Emergency Operations.

The primary purpose of Mitigation Planning is to develop sustainable, self-reliant, disaster-resistant communities. Mitigation planning is the process of estimating the impact a natural, man-made, and/or a technological disaster may have on the urban (built) environment and identifying short-term and long-term actions that will result in the elimination and/or reduction of loss of life and property, environmental damage, and disruption of governmental, social, and economic activities.

The Disaster Mitigation Act of 2000 requires that local governments/districts, as a condition of receiving federal disaster mitigation funds, have a mitigation plan that:

- Describes the process for identifying hazards, risks and vulnerabilities
- Identifies and prioritizes mitigation actions
- Encourages the development of local mitigation
- Provides technical support for those efforts

View **DRAFT 2016 HAZARD MITIGATION PLAN**

Additional resources:
Are you ready? An in-depth Citizen's Guide to Disaster Preparedness
What is Hazard Mitigation?

If you would like more information, please contact:

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A-10: Reduced Delta Reliance

A-10

Appendix A-10: Consistency with Delta Plan

This appendix provides the assessment recommended in Appendix C of DWR's Urban Water Management Plan Guidebook 2020 issued in March 2020 (Guidebook Appendix C) for San Bernardino Valley Municipal Water District (Valley District) and all of the retail water agencies located within Valley District's service area.

Valley District is concerned that the Delta Stewardship Council's approach toward assessing "reduced reliance" on the Delta focuses on the quantity of State Water Project (SWP) water being exported rather than the goal of the original legislation which was to diversify the overall water portfolio by investing "...in water use efficiency, water recycling, advanced water technologies, local and regional water supply projects, and improved regional coordination of local and regional water supply efforts." Valley District and the local retail agencies have invested and will continue to invest in all of the strategies included in the legislation and Valley District is also planning to fully utilize its \$1 billion investment in the SWP by importing all of its contracted SWP supplies.

This assessment was prepared in accordance with the recommended approach in Guidebook Appendix C. Some of the key assumptions include:

- All data were obtained from the current 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) or previously adopted San Bernardino Valley Regional UWMPs (RUWMPs) or Upper Santa Ana River Watershed Integrated Regional Water Management Plans (IRWMPs) and represent average or normal water year conditions.
- All analyses were conducted at the service area level, and all data reflect the total contributions of Valley District and the retail water agencies in their service area as well as their customers.

To calculate the expected outcomes for this analysis, a baseline is needed for comparison. 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. Data for the 2010 baseline were taken from the 2007 Upper Santa Ana River Watershed IRWMP as the UWMPs do not provide normal water year data for the year that they are adopted (i.e., 2007 IRWMP forecasts begin in 2010, 2010 UWMP forecasts begin in 2015, and so on). Consistent with the 2010 baseline data approach, the expected outcomes for 2015 and 2020 were taken from the 2010 RUWMP and 2015 RUWMP. Expected outcomes for 2025-2045 are from the current 2020 IRUWMP.

Valley District and the retail water agencies in their service area have made and will continue to make significant investments in new local supplies, including water use efficiency, new recycled water supplies for non-potable use and groundwater recharge and stormwater capture. **Error! Reference source not found.** shows the estimated water use efficiency savings since 2010, which is considered a new local supply in accordance with Guidebook Appendix C, and Table 2 shows the total expected new local supplies through 2045.

Table 2 shows the expected outcomes for change in percent of water supplies from the Delta as a percent of demands without water use efficiency, consistent with the recommendations of Guidebook Appendix C.

Table 1. New Local Supplies (Acre-Feet)

NEW LOCAL SUPPLY SOURCE	BASELINE (2010)	2015	2020	2025	2030	2035	2040	2045
Water Use Efficiency	-	49,273	57,481	89,251	96,132	103,555	108,576	113,540
Water Recycling (Direct Use)	2,214	4,175	3,188	4,715	5,310	6,155	6,800	7,445
Stormwater Capture and Use	-	-	-	10,539	18,474	25,525	31,596	31,596
Local and Regional Water Supply and Storage Projects (Groundwater Recharge with Recycled Water)	3,219	3,500	3,813	17,571	18,110	20,912	23,692	24,239
NEW LOCAL WATER SUPPLIES	5,433	56,948	64,482	122,076	138,026	156,147	170,664	176,820
INCREASE FROM 2010 BASELINE	-	51,515	59,049	116,643	132,593	150,714	165,231	171,387

Table 2. Change in Percent of Supplies from the Delta Watershed (As a Percent of Demands without Water Use Efficiency)

	BASELINE (2010)	2015	2020	2025	2030	2035	2040	2045
CHANGE IN PERCENT FROM BASELINE WATER SUPPLIES FROM THE DELTA WATERSHED AS A PERCENT OF DEMANDS WITHOUT WATER USE EFFICIENCY	-	-5.9%	-7.0%	-8.9%	-9.8%	-10.6%	-9.5%	-10.1%

B

2020 IRUWMP Part 4 City of Colton Appendix B



B-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 2 Part 1 Chapter 3
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	Part 2 Chapter 2 Executive Summary
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	Part 2 Chapter 2
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	Part 1 Chapter 1
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	Part 4 Appendix B-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 2 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 2 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 2 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 2 Chapter 2 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 2 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 2 Section 2.1.2
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	Part 2 Chapter 2 Section 2.2.1
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	Part 2 Chapter 2 Section 2.2
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	Part 2 Chapter 2 Section 2.1.2
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	Part 2 Chapter 2 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 2 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 2 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 2 Section 3.2
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
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	N/A
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	Part 4 Appendix B-7
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	Part 4 Appendix B-7
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	Part 2 Chapter 2 Section 4 Part 2 Chapter 2 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 2 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 2 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 2 Section 4.6.2 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 2 Section 4.7 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 2 Section 4.2
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	Part 2 Chapter 2 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 2 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 2 Section 4.2
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	Part 2 Chapter 2 Section 4.7
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	Part 2 Chapter 2 Section 4.6
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)	Part 2 Chapter 2 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 2 Section 4.5.1
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)	Part 2 Chapter 2 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 2 Section 4.5 Part 1 Chapter 3 Part 4 Appendix B-6
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 2 Section 4.5
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	Part 2 Chapter 2 Section 4.6.2 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 2 Section 4.8 Part 4 Appendix B-6
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	Water Supply Reliability Assessment	Part 2 Chapter 2 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 2 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 2 Section 6
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	Part 2 Chapter 2 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 2 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 2 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 2 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix B-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix B-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix B-9 Section 10.0
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	Part 4 Appendix B-9 Section 2.0
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	Part 4 Appendix B-9 Section 2.0
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	Part 4 Appendix B-9 Section 3.0
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	Part 4 Appendix B-9 Section 3.0
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	Part 4 Appendix B-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix B-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix B-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix B-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix B-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix B-9 Section 4.4&4.5
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	Part 4 Appendix B-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix B-9 Section 5.0
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	Part 4 Appendix B-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix B-9 Section 7.0
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	Part 4 Appendix B-9 Section 7.1
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	Part 4 Appendix B-9 Section 7.2
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	Part 4 Appendix B-9 Section 8.0
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	Part 4 Appendix B-9 Section 8.0
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	Part 4 Appendix B-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix B-9 Section 9.0
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	Part 4 Appendix B-9 Section 4.0
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	Part 4 Appendix B-9 Section 11.0
Section 8.14	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	Part 4 Appendix B-9 Section 11.0
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
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	Part 2 Chapter 2 Section 8
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	Part 2 Chapter 2 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 2 Section 9 Part 4 Appendix B-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9 Part 4 Appendix B-2 Public Outreach
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 2 Section 9
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	Part 2 Chapter 2 Section 9

B-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

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Customer Account Number 1124119961	
Customer Payment Reference Electric - Jessica Sutorus	
Special Project	


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CITY OF COLTON/CITY CLERK
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COLTON, CA 92324 USA

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CITY OF COLTON/CITY CLERK
650 N. LA CADENA DRIVE
COLTON, CA 92324 USA

DUE UPON RECEIPT.

Type	Order No	Description	Amount
Invoice	B3477835	06-15-2021 WATER SHORTAGE CONTINGENCY PLAN GPNB GOVERNMENT PUBLIC NOTICE 89900 SAN BERNARDINO COUNTY SUN 06/04/2021	275.00
		\$ 2.20 * 125 AgateLines * 1 Ins * 1 Cols	275.00

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PLEASE PROCESS FOR PAYMENT IMMEDIATELY. DUE UPON RECEIPT.			Total:	275.00
Please make check payable to: Daily Journal Corporation			Payment:	0.00
			Please Pay:	275.00
To ensure proper credit please write your account number 1124119961 on your check. Also, please detach and return this portion of the invoice with your payment. For account support, please email: anthony_gutierrez@dailyjournal.com or call: 2132295584.	Invoice Date 6/4/2021	Invoice Number B3477835	Customer Number 1124119961	
	 * A 0 0 0 0 5 7 4 3 1 1 5 *			
Government Advertising - Division 1124	Amount Due			275.00
DAILY JOURNAL CORPORATION CALIFORNIA NEWSPAPER SERVICE BUREAU ATTN: ACCOUNTS RECEIVABLE PO BOX 54026 LOS ANGELES, CA 90054-0026	JACQUELINE SHOOK CITY OF COLTON/CITY CLERK 650 N. LA CADENA DRIVE COLTON, CA 92324 USA			

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Telephone (909) 889-9666 / Fax (909) 884-2536

JACKIE SHOOK
CITY OF COLTON/CITY CLERK
650 N. LA CADENA DRIVE
COLTON, CA - 92324

SB #: 3477835

**City of Colton Water Department
Public Hearing Notice
Water Shortage Contingency Plan**

Notice is hereby given that on **June 15, 2021** at 6pm in the City of Colton Water Departments virtual meeting, the City of Colton Water Department (CWD) and Colton City Council will conduct a public hearing to receive public comments and consider adoption of the Draft Water Shortage Contingency Plan (WSCP). Following the public hearing, CWD's City Council may adopt the Draft WSCP with recommended modifications, if any, as a result of public input.

The Draft WSCP documents CWD's plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies.

A copy of the Draft WSCP be available for public review beginning in May 2021 and can be downloaded at <https://www.ci.colton.ca.us/> or viewed at the CWD office at 160 South 10th Street Colton CA 92324. Please contact the CWD if you require special accommodations.

If you have any questions regarding CWD's Draft WSCP public hearing meeting, please contact City of Colton Water Department at (909) 370-5561 or isutorus@coltonca.gov.

MEETING ACCESS

In an effort to protect public health and prevent the spread of COVID-19 (Coronavirus), the City of Colton encourages members of the public to view this City Council meeting on television through the local Colton cable service provider (Channel 3), or online at: <https://colton.12milesout.com/#page=1>. In-person attendance will not be possible for this meeting. Members of the public who wish to comment on matters before the City Council may submit comments by email to: Cityclerkoffice@coltonca.gov. Comments must be submitted by 3:00pm on Tuesday, June 1, 2021. All comments will be shared with the City Council, and become part of the Council meeting record, accessible through the City Clerk's Office.

To make verbal comments by attending the meeting remotely, you must pre-register, via computer, using the following link.

PROOF OF PUBLICATION

(2015.5 C.C.P.)

State of California)
County of SAN BERNARDINO) ss

Notice Type: GPNSB - GOVERNMENT PUBLIC NOTICE-SB

Ad Description:

06-15-2021 Water Shortage Contingency Plan

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of the printer and publisher of the SAN BERNARDINO COUNTY SUN, a newspaper published in the English language in the city of SAN BERNARDINO, county of SAN BERNARDINO, and adjudged a newspaper of general circulation as defined by the laws of the State of California by the Superior Court of the County of SAN BERNARDINO, State of California, under date 06/27/1952, Case No. 73081. That the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

06/04/2021

Executed on: 06/04/2021
At Riverside, California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Signature



Email

* A 0 0 0 0 0 5 7 4 3 1 1 6 *

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**LEGAL ADVERTISING
INVOICE**

Invoice Number B3477834	Date 6/4/2021
Customer Account Number 1124119961	
Customer Payment Reference Electric - Jessica Sutorus	
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650 N. LA CADENA DRIVE
COLTON, CA 92324 USA

DUE UPON RECEIPT.

Type	Order No	Description	Amount
Invoice	B3477834	06-15-2021 2020 INTEGRATED REGIONAL URBAN WATER HRGSB NOTICE OF HEARING-SB 89900 SAN BERNARDINO COUNTY SUN 06/04/2021	283.80
		\$ 2.20 * 129 AgateLines * 1 Ins * 1 Cols	283.80

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PLEASE PROCESS FOR PAYMENT IMMEDIATELY. DUE UPON RECEIPT.			Total:	283.80
Please make check payable to: Daily Journal Corporation			Payment:	0.00
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To ensure proper credit please write your account number 1124119961 on your check. Also, please detach and return this portion of the invoice with your payment. For account support, please email: anthony_gutierrez@dailyjournal.com or call: 2132295584.	Invoice Date 6/4/2021	Invoice Number B3477834	Customer Number 1124119961	
		 * A 0 0 0 0 5 7 4 3 1 1 3 *		
Government Advertising - Division 1124	Amount Due			283.80
DAILY JOURNAL CORPORATION CALIFORNIA NEWSPAPER SERVICE BUREAU ATTN: ACCOUNTS RECEIVABLE PO BOX 54026 LOS ANGELES, CA 90054-0026	JACQUELINE SHOOK CITY OF COLTON/CITY CLERK 650 N. LA CADENA DRIVE COLTON, CA 92324 USA			

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Telephone (909) 889-9666 / Fax (909) 884-2536

JACKIE SHOOK
CITY OF COLTON/CITY CLERK
650 N. LA CADENA DRIVE
COLTON, CA - 92324

SB #: 3477834

**Public Hearing Notice
2020 Integrated Regional Urban
Water Management Plan**

Notice is hereby given that on **June 15, 2021** at 6pm virtually in the City of Colton will conduct a public hearing to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). Following the public hearing, the Colton City Council may adopt the Draft 2020 IRUWMP with recommended modifications, if any, as a result of public input.

The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents the City of Colton Water Department (CWD) plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. A copy of the Draft 2020 IRUWMP will be available for public review beginning in May 2021 and can be downloaded at <https://www.ci.colton.ca.us/> or viewed at CWD office at 160 South 10th Street Colton CA 92324. Please contact CWS if you require special accommodations.

If you have any questions regarding CWD's 2020 IRUWMP public hearing meeting, please contact City of Colton Water Department at (909) 370-5561 or isutorus@coltonca.gov.

MEETING ACCESS

In an effort to protect public health and prevent the spread of COVID-19 (Coronavirus), the City of Colton encourages members of the public to view this City Council meeting on television through the local Colton cable service provider (Channel 3), or online at: <https://colton.12milesout.com/#page=1>. In-person attendance will not be possible for this meeting. Members of the public who wish to comment on matters before the City Council may submit comments by email to: Cityclerkoffice@coltonca.gov. Comments must be submitted by 3:00pm on Tuesday, June 1, 2021. All comments will be shared with the City Council, and become part of the Council meeting record, accessible through the City Clerk's Office.

PROOF OF PUBLICATION

(2015.5 C.C.P.)

State of California)
County of SAN BERNARDINO) ss

Notice Type: HRGSB - NOTICE OF HEARING-SB

Ad Description:

06-15-2021 2020 Integrated Regional Urban Water Management Plan

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of the printer and publisher of the SAN BERNARDINO COUNTY SUN, a newspaper published in the English language in the city of SAN BERNARDINO, county of SAN BERNARDINO, and adjudged a newspaper of general circulation as defined by the laws of the State of California by the Superior Court of the County of SAN BERNARDINO, State of California, under date 06/27/1952, Case No. 73081. That the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

06/04/2021

Executed on: 06/04/2021
At Riverside, California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Signature



Email

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B-3: Resolutions

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RESOLUTION NO. R-71-21

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY
OF COLTON ADOPTING THE 2020 UPPER SANTA ANA
RIVER WATERSHED INTEGRATED REGIONAL
URBAN WATER MANAGEMENT PLAN**

WHEREAS, the City of Colton Water Department (CWD) and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, CWD participated in the development of the 2007 and 2015 IRWMPs and adopted the 2007 and 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and

WHEREAS, CWD meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP

1 (RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the
2 UMWP Act; and

3 **WHEREAS**, both the IRWMP and RUWMP are both due to be updated; and

4 **WHEREAS**, CWD and nineteen other water suppliers and water management organizations in the
5 upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive
6 planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water
7 Management Plan (IRUWMP) which is the first of its kind in California; and

8 **WHEREAS**, valuable synergies are realized by combining these two documents into one,
9 including reduced preparation costs, a single integrated dataset, a consolidated reference document,
10 enhanced collaboration, and more robust integrated planning and decision-making; and

11 **WHEREAS**, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional
12 Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 –
13 Individual Agency Supporting Information; and

14 **WHEREAS**, as a participant in the 2020 IRUWMP, CWD has prepared those portions of the
15 IRUWMP applicable to CWD to meet the requirements of the IRWM Act, the UWMP Act and other applicable
16 laws and regulations which include Part 1, Part 2 Chapter 2: CWD UWMP, Part 3, and Part 4 Appendix B: CWD
17 Supporting Information; and

18 **WHEREAS**, in accordance with applicable legal requirements, CWD has undertaken certain
19 coordination, notice, public involvement, public comment, and other procedures in relation to the 2020
20 IRUWMP; and

21 **WHEREAS**, in accordance with the UWMP Act, CWD has prepared the 2020 IRUWMP with staff
22 from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental
23 agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in
24 preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare
25 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and

26 **WHEREAS**, in accordance with applicable law, a Notice of a Public Hearing regarding the CWD's
27 adoption of Part 1, Part 2 Chapter 2, Part 3 and Part 4 Appendix B of the 2020 IRUWMP was published within
28 the jurisdiction of the City of Colton Water Department on June 1, 2021 and June 15, 2021; and

29 **WHEREAS**, in accordance with applicable law, including but not limited to Water Code
30 sections 10608.26 and 10642, a public hearing was held on June 15, 2021 at 6:00 pm, or soon thereafter,
31 in a virtual meeting, Colton, CA 92324 in order to provide members of the public and other interested
32 entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP
33 and issues related thereto; and

34 **WHEREAS**, in accordance with applicable legal requirements, CWD has undertaken certain
35 coordination, notice, public involvement, public comment, and other procedures in relation to the 2020
36 IRUWMP; and

1 **WHEREAS**, pursuant to said public hearing on the 2020 IRUWMP, CWSD, among other things,
2 encouraged the active involvement of diverse social, cultural, and economic members of the community within
3 the CWD's service area with regard to the preparation of the Plan, encouraged community input regarding the
4 2020 IRUWMP; and

5 **WHEREAS**, the Colton City Council and Colton has reviewed and considered the purposes and
6 requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation
7 contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual
8 analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and

9 **WHEREAS**, the Colton City Council desires to adopt Part 1, Part 2 Chapter 2, Part 3 and Part
10 4, Appendix B of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

11 **NOW THEREFORE BE IT RESOLVED**, the Colton City Council and Colton Utility
12 Authority of the CWD hereby resolve as follows:

- 13 1. Part 1, Part 2 Chapter 2, Part 3 and Part 4 Appendix B of the 2020 IRUWMP is
14 hereby adopted as amended by changes incorporated by the City of Colton as a result of
15 input received (if any) at the public hearing and ordered filed with the Secretary of the
16 City of Colton;
- 17 2. The Director of Public Works and Utility Services is hereby authorized and directed
18 to include a copy of this Resolution in the City of Colton's Water Department 2020
19 IRUWMP;
- 20 3. The Director of Public Works and Utility Services is hereby authorized and directed,
21 in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically
22 submit a copy of the City of Colton Water Departments portions of the 2020 IRUWMP
23 to DWR no later than July 1, 2021;
- 24 4. The Director of Public Works and Utility Services is hereby authorized and directed,
25 in accordance with Water Code section 10644(a), to submit a copy of the 2020
26 IRUWMP to the California State Library, and any city or county within which the City
27 of Colton Water Department provides water supplies no later than thirty (30) days after
28 this adoption date;
5. The Director of Public Works and Utility Services is hereby authorized and directed,
in accordance with Water Code section 10645, to make the 2020 IRUWMP available for
public review at The City of Colton Water Department offices during normal business
hours and on the City's website no later than thirty (30) days after filing a copy of the
2020 IRUWMP with DWR;
6. The Director of Public Works and Utility Services is hereby authorized and directed,
in accordance with Water Code Section 10635(b), to provide that portion of the 2020
IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county
within which The City of Colton Water Department provides water supplies no later
than sixty (60) days after submitting a copy to DWR;

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1 7. The Director of Public Works and Utility Services is hereby authorized and directed
2 to implement the 2020 Plan in accordance with the IRWM Act and UWMP Act and to
3 provide recommendations to the City Council and regarding the necessary budgets,
4 procedures, rules, regulations, or further actions to carry out the effective and equitable
5 implementation of the 2020 IRUWMP in collaboration with the regional partners.

6 **PASSED, APPROVED AND ADOPTED** this 15th day of June 2021.

7 
FRANK J. NAVARRO, Mayor

8 ATTEST:

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10 CAROLINA R. PADILLA, City Clerk
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B-4: Agreements

AGREEMENT REGARDING THE TRANSFER OF EMERGENCY WATER
FROM
THE CITY OF COLTON
TO
TERRACE WATER COMPANY

1. Parties and Date

This agreement regarding the transfer of emergency water ("Agreement") is entered into as of the 19th day of December, 2013, by and between the CITY OF COLTON, a municipality located within San Bernardino County, California ("Colton") and TERRACE WATER COMPANY, a California Corporation (Terrace Water). Colton and Terrace Water may be referred to individually as *Party* or collectively as *Parties*.

2. Recitals

- 2.1 Colton provides water service to its customers within the city limits of the City of Colton. Terrace Water is a mutual water company providing water service to its stockholders within its service area.
- 2.2 Colton and Terrace Water desire and believe that it is in the best interests of Terrace Water customers to have the right to purchase available supplies from Colton in case of emergency.
- 2.3 The Parties acknowledge that Terrace Water wishes to retain its status as a mutual water company, and that it wishes to remain outside of the jurisdiction of the California Public Utilities Commission and that the Parties do not intend to imply in any way that Terrace Water will be engaging in any activities that might jeopardize that status.

NOW, THEREFORE, in consideration of the preceding promises and the mutual covenants hereinafter contained, and for other good and valuable consideration, the Parties agree as follows:

3. Terms

- 3.1 **Term and Termination.** The term of the Agreement shall commence on the date first written above ("Commencement Date") and continue in effect until terminated by the Parties with written notice of such intent to terminate provided to the other Party. Notice to terminate must be provided at least six (6) months prior to the effective date of termination.
 - 3.1.1 **Termination Due to Default.** Notwithstanding the above, if either Party believes that the other Party has failed to perform any obligation under this Agreement ("Default"), the Party alleging the Default shall provide written notice ("Default Notice") to the other Party, setting forth the nature of the alleged Default. The Party claimed to be in Default shall have: (i) with respect to non-payment of money, ten (10) days after its receipt of the Default Notice to completely cure such Default, and (ii) with respect to any other type of Default, thirty (30) days from the receipt of the Default Notice to cure such Default or, if such Default cannot reasonably be cured within such thirty (30) day period, to commence to cure such Default within the thirty (30) day period and diligently prosecute the cure to completion thereafter. If the Default is not cured by the end of the time periods set forth above, the Party not in Default may terminate this Agreement immediately.

- 3.1.2 Termination Due to Regulatory Changes.** This Agreement may be terminated by either Party, upon thirty (30) days prior written notice to the other Party, in the event of a future condition which is beyond the ability of either Party to control, such as requirements established by a regulatory agency or a court decision, and which makes it necessary to cease the activities contemplated by this Agreement.
- 3.1.3 Amount of Water; Meter; Delivery Point.** Colton agrees to make available to Terrace Water emergency surplus water supplies necessary to assist Terrace Water customers.
- 3.2.1 "Emergency" Defined.** For the purposes of this Agreement, an "emergency" is defined as any sudden unexpected occurrence that poses a clear and imminent danger of, or requires immediate action to prevent or mitigate, the loss or impairment of life, health, safety, property or essential public/customer services. An "emergency" shall not last longer than thirty (30) calendar days, unless a longer period is mutually agreed to by the Parties in writing. An "emergency" need not be a City-declared water shortage emergency, however, an increase in customer demand due to development or growth shall not be deemed an "emergency". In the event of any dispute between the Parties as to whether an emergency exists, Colton's Director of Public Works and Terrace Water's General Manager, or their designees, shall meet with the intent of discussing and resolving any such dispute.
- 3.2.2 "Surplus" Defined.** For the purposes of this Agreement, "surplus" is defined as the amount of water as determined by Colton, in its reasonable discretion, in excess of the amount necessary to meet the demands of the Colton system. Colton shall not be required to purchase imported water specifically to meet the requirements of this Agreement but may use imported water obtained through other agreements.
- 3.2.3 Design and Construction of the Interconnection.** Water will be delivered through the interconnection located at the intersection of Stevenson Street and Tejon Avenue. Terrace Water shall bear the sole cost of designing, permitting and constructing the interconnection, as outlined in Exhibit "A" attached hereto and made a part hereof. Prior to construction, Colton shall have the reasonable right to approve the design of the interconnection. Upon completion, Terrace Water shall provide Colton with "as-built" record drawings of the interconnection and provide any amendments to these drawings as they are developed. Terrace Water will be the owner of the interconnection facilities, including all installed devices, valves and hardware. Colton shall meter all water deliveries through the interconnection.
- 3.2.4 Operations, Maintenance and Repair of the Interconnection.** Terrace Water shall be responsible for all costs of operations, maintenance and repair of the interconnection.
- 3.2.5 Closure Upon Termination.** In the event of termination, all interconnection valves will be immediately closed and locked. All salvageable interconnection devices, valves and hardware owned and installed by Terrace Water may be removed by Terrace Water not later than sixty (60) days following the effective date of termination. The cost of disconnecting and removing all interconnection devices, valves and hardware shall be borne solely by Terrace Water. Any interconnection devices, valves or hardware not removed by Terrace Water after said sixty (60) day period shall be deemed abandoned and Colton may assume ownership of said devices, valves and hardware.
- 3.2.6 Request Procedure; Delegation of Authority to Approve Purchases.** If Terrace Water has an emergency and desires to purchase water from Colton, Terrace Water shall use its

best efforts to send a written request to Colton at least twenty-four (24) hours in advance and, in all cases, shall notify Colton by written or other means prior to actual use of emergency surplus water. When a twenty-four (24) hour written notice is not possible due to the nature of the emergency, Terrace Water shall (a) contact the City of Colton Water Department to request service or (b) after normal business hours, weekends or holidays, Terrace Water shall contact the Colton Police Department to request they contact the after-hours on-call Operator for the Colton Water Department to request water service. Terrace Water shall send the City of Colton a written request notice the very next business day for the service that was made after hours. Colton shall have exclusive control over the opening and closing of the valves at the interconnection, unless otherwise agreed to by the Parties in writing. The Parties acknowledge that the precise quantity and pressure of surplus water delivered to Terrace Water in an emergency may vary due to climatological, water supply, system availability and other conditions and Colton cannot guarantee or warranty the delivery of specific quantity of water in every case. For the purposes of this Agreement, the City's Director of Public Works and Terrace Water's General Manager are hereby delegated express authority to negotiate and approve purchases, including the calculating of the estimated quantity of emergency surplus water to be delivered. Each Party shall notify the other if they choose to change the authorized representative.

- 3.3 **Payments for Water.** Colton shall charge Terrace Water \$1.85 per CCF of water delivered under the terms of this Agreement. Billing shall be based upon the rate above multiplied by the quantity determined at the interconnection meter. Terrace Water Company shall also pay a service fee of Five Hundred Twenty-Five Dollars (\$525.00) for any month during which the interconnection is opened and Terrace Water uses emergency surplus water. Colton shall read the meter and record the quantity of water that was actually delivered. Colton shall deliver a copy of such record and/or an invoice to Terrace Water reflecting the amount of water delivered and the price therefor. Terrace Water shall pay Colton on or before the thirtieth (30th) calendar day after receiving the invoice.
- 3.4 **Water Quality and Source.** All water supplied pursuant to this Agreement shall be of potable quality, and shall comply with any and all applicable local, state, and federal drinking water laws and standards. It is understood that Colton may, in its absolute discretion, utilize any combination of its water sources to meet the obligations of this Agreement, provided the quality of the water meets the standards of this Agreement.
- 3.5 **Acknowledgement Regarding Mutual Water Company Status.** The Parties understand and agree that Terrace Water intends to retain its mutual water company status such that it does not become subject to the jurisdiction of the California Public Utilities Commission (PUC) and that Terrace Water would not enter into this Agreement were the provisions thereof thought to jeopardize Terrace Water's mutual water company status. To this end, the Parties acknowledge and agree that this Agreement is not intended to trigger the provisions of Public Utility Code sections or provisions of law that could potentially subject Terrace Water to the jurisdiction of the PUC. In the event a court, the PUC or other regulatory authority determines that this Agreement triggers PUC jurisdiction over Terrace Water, this Agreement may be terminated as provided in Section 3.1.2 above.
- 3.6 **Insurance.** The Parties have reviewed the insurance or self-insurance programs of each other and the Parties shall maintain the same coverage or programs during the term of the Agreement. The Parties shall obtain and furnish to each other proof of coverage for

water production, storage and delivery. Neither Party may change the terms of coverage without providing at least thirty (30) days written prior notice to the other Party.

- 3.7 **Indemnification.** Colton and Terrace Water shall each defend, indemnify, and hold the other Party and its officials, officers, employees, consultants, subcontractors, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury, in law or equity, to property or persons, including wrongful death, to the extent arising out of incident to any negligent acts, omissions, or willful misconduct of the indemnifying party or its officials, officers, employees, consultants, subcontractors, volunteers, and agents arising out of or in connection with the performance of this Agreement.
- 3.8 **Entire Agreement.** This Agreement contains the entire agreement between the Parties respecting the subject matter thereof and supersedes all prior understandings and agreements, whether oral or in writing, between the Parties respecting the subject matter of this Agreement.
- 3.9 **Amendment.** This Agreement may be amended at any time by the written agreement of the Parties. All amendments and changes of this Agreement, in all or in part, and from time to time, shall be binding upon the Parties despite any lack of legal consideration, so long as the same shall be in writing and duly approved and executed by the Parties hereto.
- 3.10 **No Third Party Benefit.** This Agreement is intended to benefit only the Parties hereto and no other person or entity has or shall acquire any rights hereunder.
- 3.11 **Further Acts.** Each Party hereby agrees that it shall, upon request from the other, execute and deliver such further documents (in form and substance reasonably acceptable to the Party to be charged) and do such other acts and things as are reasonably necessary and appropriate to effectuate the terms and conditions of this Agreement.
- 3.12 **Notices.** All notices and demands that either Party is required or desires to give the other shall be given in writing by United States registered or certified mail, return receipt requested, by personal delivery, by facsimile with confirmation of receipt, by express courier service, or by electronic mail at the address set forth below. Parties are required to inform the other of changes in address. All notices shall be effective upon receipt or upon refusal to accept delivery.

City of Colton
Attn: City Manager
650 N. La Cadena Dr.
Colton, CA 92324

Terrace Water Company
P.O. Box 640
1095 Stevenson Street
Colton, CA 92324
Attn: Tobi Ritarita, General Manager
Phone: (909) 825-5224
Fax: (909) 825-5079
Email: tobiterracewater@gmail.com

- 3.13 **Severability.** In the event any one of the provisions of this Agreement shall for any reason be held invalid, illegal, or unenforceable, the remaining provisions of this Agreement shall be unimpaired, and the invalid, illegal, or unenforceable provision(s)

shall be replaced by a mutually acceptable provision which being valid, legal, and enforceable, comes closest to the intention of the Parties underlying the invalid, illegal, or unenforceable provision.

- 3.14 **Assignment.** In no event shall this Agreement be assigned by either Party without first obtaining the prior written consent of the other Party.
- 3.15 **Waiver.** No covenant, term, or condition of this Agreement shall be deemed to be waived by any Party hereto unless such waiver is in writing and executed by the Party making the waiver. No waiver of any breach of any of the terms, covenants, or conditions of this Agreement shall be construed or held to be a waiver of any succeeding or preceding breach of the same or any other term, covenant, or condition contained herein.
- 3.16 **Laws, Venue, and Attorneys' Fees.** This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this Agreement, the action shall be brought in a state or federal court situated in the County of San Bernardino, State of California. In the event of any such litigation between the Parties, the prevailing Party shall be entitled to recover all reasonable costs incurred, including reasonable attorney's fees, as determined by the court.
- 3.17 **Counterparts.** This Agreement may be executed in multiple counterparts, each of which shall constitute an original and all of which shall constitute one Agreement.

IN WITNESS WHEREOF, the Parties hereby have caused this agreement to be executed the date first above written.

City of Colton

By: _____

Title: _____

Attest by: _____

Title: _____

Terrace Water Company

By: _____

President

Attest by: _____

Corporate Secretary

EXHIBIT "A"

**PRELIMINARY SUMMARY OF PROBABLE CONSTRUCTION
TERRACE WATER COMPANY
CONNECTION TO
THE CITY OF COLTON**

The proposed connection would be made at the intersection of Stevenson Street and Tejon Avenue. An 8" diameter water main would be extended from Colton's existing 8" diameter water main. The 8" main would run to the south side of Stevenson Street between Tejon and Grand. Terrace Water will install a back flow device, meter, and pressure reducer above ground enclosed in a metal cage. Pipe bollards will be installed around the cage.

TK Construction will furnish and install 2 ea hot tops on existing water lines, valves, DDC, bollards, asphalt paving (inlay only), Cia-val, and gauges. Included in their work: backfill with native soil, compaction, restoration of existing site conditions, traffic control, and clean up.

The quoted cost of the work above is: \$55,900.00

B-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information			
Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	Colton City Of	3694364249	3/22/2021 7:09:14 AM

Boundary Information		
Census Year	Boundary Filename	Internal Boundary ID
1990	Colton City.kml	456
2000	Colton City.kml	456
2010	Colton City.kml	456
1990	Colton City.kml	456
2000	Colton City.kml	456
2010	Colton City.kml	456
1990	Colton City.kml	456
2000	Colton City.kml	456
2010	Colton City.kml	456
1990	Colton City.kml	456
2000	Colton City.kml	456
2010	Colton City.kml	456

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period:

Year beginning baseline period range:

Year ending baseline period range¹: 2008

5-year baseline period

Year beginning baseline period range:

Year ending baseline period range²: 2007

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons per Connection			
Year	Census Block Level	Number of Connections *	Persons per Connection
	Total Population		
1990	33,873	<input type="text"/>	5.17
1991	-	-	5.17
1992	-	-	5.17
1993	-	-	5.17
1994	-	-	5.17
1995	-	-	5.17
1996	-	-	5.17
1997	-	-	5.17
1998	-	-	5.17
1999	-	-	5.17
2000	40,629	<input type="text"/>	5.17
2001	-	-	5.17
2002	-	-	5.17
2003	-	-	5.17
2004	-	-	5.17
2005	-	-	5.17
2006	-	-	5.17
2007	-	-	5.17
2008	-	-	5.17
2009	-	-	5.17
2010	44,711	<input type="text" value="8652"/>	5.17
2011	-	-	5.17
2012	-	-	5.17
2013	-	-	5.17
2014	-	-	5.17
2015	-	-	5.17
2020	-	-	5.17 **

Population Using Persons-Per-Connection				
Year		Number of Connections *	Persons per Connection	Total Population
10 to 15 Year Baseline Population Calculations				
Year 1	1999	<input type="text"/>	5.17	
Year 2	2000	<input type="text"/>	5.17	
Year 3	2001	<input type="text"/>	5.17	
Year 4	2002	<input type="text"/>	5.17	
Year 5	2003	<input type="text"/>	5.17	
Year 6	2004	<input type="text"/>	5.17	
Year 7	2005	<input type="text"/>	5.17	
Year 8	2006	<input type="text"/>	5.17	
Year 9	2007	<input type="text"/>	5.17	
Year 10	2008	<input type="text"/>	5.17	
5 Year Baseline Population Calculations				
Year 1	2003	<input type="text"/>	5.17	
Year 2	2004	<input type="text"/>	5.17	
Year 3	2005	<input type="text"/>	5.17	
Year 4	2006	<input type="text"/>	5.17	
Year 5	2007	<input type="text"/>	5.17	
2020 Compliance Year Population Calculations				
	2020	<input type="text" value="9003"/>	5.17 **	46,525

[Hide Print Confirmation](#)

QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELo QUESTIONS / ISSUES? CONTACT THE MWELo HELP DESK

B-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610014	COLTON, CITY OF	10,243	9,244
Total:		10,243	9,244

2-2 | Public Water Systems

STATUS: Published

NOTES: -

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS: Published

NOTES: Valley District technically is not a wholesaler to the City of Colton

Wholesale Water Supplier Name

3-1R | Current & Projected Population

STATUS:

NOTES:

Population Served	2020	2025	2030	2035	2040	2045
Total	46,525	49,164	51,954	54,902	56,629	58,411
Total	46,525	49,164	51,954	54,902	56,629	58,411

4-1R | Actual Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Residential	Drinking Water	4,597
Commercial	Commercial	Drinking Water	3,545
Institutional/Governmental	Municipal	Drinking Water	253
Losses	Water Losses	Drinking Water	849
Total:			9,244

4-2R | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Residential	4,858	5,119	5,379	5,524	5,669
Commercial	Commercial	3,746	3,947	4,148	4,260	4,371
Institutional/Governmental	Municipal	268	282	296	304	312
Losses	Water Losses	887	935	982	1,009	1,035
Total:		9,759	10,283	10,806	11,097	11,388

4-3R | Total Gross Water Use

STATUS: Published

NOTES: -

	2020	2025	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	9,244	9,759	10,283	10,806	11,097	11,388
Recycled Water Demand* From Table 6-4R	-	-	-	-	-	-
Total Water Use:	9,244	9,759	10,283	10,806	11,097	11,388

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES: -

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	927
1	2017	1,131
1	2018	577
1	2019	573
1	2020	848 (Estimate)

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES:

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS:

NOTES: -

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	1999	2008	256	205
5 Year	2003	2007	256	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
177	0	0	0	0	0	0	Yes

*All values are in Gallons per Capita per Day (GPCD)

6-1R | Groundwater Volume Pumped

STATUS:

NOTES:

All or part of the groundwater described below is desalinated.						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Bunker Hill	3,022	3,930	3,698	2,944	2,623
Alluvial Basin	Rialto-Colton	2,485	1,983	1,931	1,943	2,899
Alluvial Basin	Riverside North	3,607	3,755	3,985	3,708	3,722
Total:		9,114	9,668	9,614	8,595	9,244

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
City of Colton	Metered	4,092	City of Colton	Colton Water Reclamation Facility	Yes	No
Total:		4,092				

6-3R | Wastewater Treatment & Discharge Within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Plant Treats Wastewater Generated Outside the Service Area	Treatment Level	2020 Volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Colton Water Reclamation Facility	Rapid Infiltration/Extraction (RIX) Plant	to RIX for additional treatment		Other	Yes	Secondary, Disinfected - 2.2	5,627	5,627	-	-	-
RIX		Santa Ana River		River or creek outfall	Yes	Tertiary	29,816	29,816	-	-	-
Total:							35,443	35,443	-	-	-

6-4R | Recycled Water Direct Beneficial Uses Within Service Area

STATUS:

NOTES:

Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table.

Name of Supplier Producing (Treating) the Recycled Water:										
Name of Supplier Operating the Recycled Water Distribution System:										
Supplemental Volume of Water Added in 2020:										
Source of 2020 Supplemental Water:										
Beneficial Use Type	Potential Beneficial Uses of Recycled Water	Amount of Potential Uses of Recycled Water	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045
Landscape Irrigation (excludes golf courses)										
Golf Course Irrigation										
Commercial Use										
Industrial Use										
Geothermal and Other Energy Production										
Seawater Intrusion Barrier										
Recreational Impoundment										
Wetlands or Wildlife Habitat										
Groundwater Recharge (IPR)*										
Surface Water Augmentation (IPR)*										
Direct Potable Reuse										
Total:					-	-	-	-	-	-
Internal Reuse (Not included in Statewide Recycled Water Volume).										
*IPR - Indirect Potable Reuse										

6-5R | 2015 Recycled Water Use Projection Compared to 2020 Actual

STATUS:

NOTES:

Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table.

Use Type	2015 Projection for 2020	2020 Actual Use
Agricultural Irrigation		
Landscape Irrigation (excludes golf courses)		
Golf Course Irrigation		
Commercial Use		
Industrial Use		
Geothermal and Other Energy Production		
Seawater Intrusion Barrier		
Recreational Impoundment		
Wetlands or Wildlife Habitat		
Groundwater Recharge (IPR)*		
Surface Water Augmentation (IPR)*		
Direct Potable Reuse		
Total:	-	-



6-6R | Methods to Expand Future Recycled Water Use

STATUS:

NOTES:

The supplier does not plan to expand recycled water use in the future. The supplier will not complete the table below but will provide narrative explanation.

Name of Action	Description	Planned Implementation Year	Expected Increase of Recycled Water Use
Total:			-

6-7R | Expected Future Water Supply Projects or Programs

STATUS:

NOTES:

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.						
Page Location for Narrative in UWMP:			Part 2 Chapter 2 Section 4.6.2			
Name of Future Projects or Programs	Joint Project with Other Suppliers	Agency Name	Description	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier

6-8R | Actual Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	2,623	Drinking Water	
Groundwater (not desalinated)	Rialto-Colton	2,899	Drinking Water	
Groundwater (not desalinated)	Riverside North	3,722	Drinking Water	
Total:		9,244		-

6-8DS | Source Water Desalination

STATUS:

NOTES:

Neither groundwater nor surface water are reduced in salinity prior to distribution. The supplier will not complete the table.

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	4,425		4,968		5,510		5,784		6,058	
Groundwater (not desalinated)	Rialto-Colton	2,800		2,800		2,800		2,801		2,802	
Groundwater (not desalinated)	Riverside-Arlington	3,800		3,800		3,800		3,800		3,800	
Purchased or Imported Water	State Water Project - Rialto Colton Groundwater Supplemental Supply	197		257		317		377		436	
	Total:	11,222	-	11,826	-	12,427	-	12,762	-	13,096	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES:

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	11,222	11,825	12,427	12,762	13,096
Demand Totals From Table 4-3R	9,759	10,283	10,806	11,097	11,388
Difference:	1,464	1,542	1,621	1,665	1,708

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	12,345	13,007	13,670	14,038	14,405
Demand Totals	10,734	11,311	11,887	12,207	12,526
Difference:	1,610	1,697	1,783	1,831	1,879

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES:

		2025	2030	2035	2040	2045
First Year	Supply Totals	12,345	13,007	13,670	14,038	14,405
	Demand Totals	10,734	11,311	11,887	12,207	12,526
	Difference:	1,610	1,697	1,783	1,831	1,879
Second Year	Supply Totals	12,345	13,007	13,670	14,038	14,405
	Demand Totals	10,734	11,311	11,887	12,207	12,526
	Difference:	1,610	1,697	1,783	1,831	1,879
Third Year	Supply Totals	12,345	13,007	13,670	14,038	14,405
	Demand Totals	10,734	11,311	11,887	12,207	12,526
	Difference:	1,610	1,697	1,783	1,831	1,879
Fourth Year	Supply Totals	12,345	13,007	13,670	14,038	14,405
	Demand Totals	10,734	11,311	11,887	12,207	12,526
	Difference:	1,610	1,697	1,783	1,831	1,879
Fifth Year	Supply Totals	12,345	13,007	13,670	14,038	14,405
	Demand Totals	10,734	11,311	11,887	12,207	12,526
	Difference:	1,610	1,697	1,783	1,831	1,879
Sixth Year	Supply Totals	12,345	13,007	13,670	14,038	14,405
	Demand Totals	10,734	11,311	11,887	12,207	12,526
	Difference:	1,610	1,697	1,783	1,831	1,879

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	10,282
	Total Supplies	11,824
	Surplus/Shortfall without WSCP Action	1,542
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,542
	Resulting Percent Use Reduction from WSCP Action	0%
2022	Gross Water Use	10,395
	Total Supplies	11,954
	Surplus/Shortfall without WSCP Action	1,559
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,559
	Resulting Percent Use Reduction from WSCP Action	0%
2023	Gross Water Use	10,508
	Total Supplies	12,084
	Surplus/Shortfall without WSCP Action	1,576
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,576
	Resulting Percent Use Reduction from WSCP Action	0%
2024	Gross Water Use	10,621
	Total Supplies	12,214
	Surplus/Shortfall without WSCP Action	1,593
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,593
	Resulting Percent Use Reduction from WSCP Action	0%
2025	Gross Water Use	10,734
	Total Supplies	12,345
	Surplus/Shortfall without WSCP Action	1,610
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,610
	Resulting Percent Use Reduction from WSCP Action	0%

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES:

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Normal Condition (Colton Stage 1) - Water Conservation Stage I applies during periods when the City is able to meet all of the water demands of its customers. Water Conservation Stage I is in effect at all times unless the City Council otherwise declares that another water conservation stage is in effect pursuant to this chapter.
2	Up to 20%	Water Alert Conditions (Colton Stage 2) - Stage II applies during periods when the City will not be able to meet all of the water demands of its customers.
3	Up to 30%	Water Warning Conditions (Colton Stage 3) - Stage III applies during periods when the City will not be able to meet all of the water demands of its customers.
4	Up to 40%	Water Emergency Conditions (Colton Stage 4) - Stage IV shall apply when the ordinary demands and requirements of City water customers cannot be satisfied without depleting the City water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection. A water shortage emergency includes both an immediate emergency, in which the City is unable to meet current water needs of persons within the City, as well as a threatened water shortage, in which the City determines that its supply cannot meet an increased future demand. The use of water shall be limited to essential household, commercial, manufacturing, or processing uses only, except where other uses may be allowed pursuant to a permit issued by the Department. Other restrictions may be necessary during a declared Water Shortage Emergency, to safeguard the adequacy of the water supply for domestic, sanitation, fire protection, and environmental requirements.

5	Up to 50%	<p>Water Emergency Conditions (Colton Stage 4) - Stage IV shall apply when the ordinary demands and requirements of City water customers cannot be satisfied without depleting the City water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection. A water shortage emergency includes both an immediate emergency, in which the City is unable to meet current water needs of persons within the City, as well as a threatened water shortage, in which the City determines that its supply cannot meet an increased future demand. The use of water shall be limited to essential household, commercial, manufacturing, or processing uses only, except where other uses may be allowed pursuant to a permit issued by the Department. Other restrictions may be necessary during a declared Water Shortage Emergency, to safeguard the adequacy of the water supply for domestic, sanitation, fire protection, and environmental requirements.</p>
6	>50%	<p>Water Emergency Conditions (Colton Stage 4) - Stage IV shall apply when the ordinary demands and requirements of City water customers cannot be satisfied without depleting the City water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection. A water shortage emergency includes both an immediate emergency, in which the City is unable to meet current water needs of persons within the City, as well as a threatened water shortage, in which the City determines that its supply cannot meet an increased future demand. The use of water shall be limited to essential household, commercial, manufacturing, or processing uses only, except where other uses may be allowed pursuant to a permit issued by the Department. Other restrictions may be necessary during a declared Water Shortage Emergency, to safeguard the adequacy of the water supply for domestic, sanitation, fire protection, and environmental requirements.</p>
<p>¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.</p>		

8-2 | Demand Reduction Actions

STATUS:

NOTES: -

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
1	CII - Restaurants may only serve water upon request	0-1%	All restaurants are requested not to serve water to their customers unless specifically requested by the customer.	No
1	Landscape - Limit landscape irrigation to specific times	0-5%	Use of potable water for irrigating or watering turf, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems should only be done between the hours of 6:00 p.m. and 10:00 a.m. (agricultural accounts are excluded from the time of irrigation restrictions). Drip irrigation and hand watering with a handheld hose or faucet filled bucket are exempt from this recommendation	No
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Sprinklers and irrigation systems should be adjusted to avoid overspray, runoff in excess of five (5) minutes, or other waste.	No
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Permitting potable water to escape from leaks within the customer's plumbing system. All water leaks from a customer's plumbing system shall be repaired in a timely manner.	Yes

1	Other - Prohibit use of potable water for washing hard surfaces	0-1%	Use of potable water to clean sidewalks, walkways, driveways, parking areas, patios, porches, verandas, tennis courts, or other paved, concrete, or other hard surface areas, except where necessary for the benefit of public health or safety.	Yes
1	Other - Require automatic shut of hoses	0-1%	Washing of automobiles, boats, trailers, aircraft, or other vehicles by hose without a shutoff nozzle and bucket, except to wash such vehicles at commercial or fleet vehicle washing facilities. Provided, however, such washings are exempt from these regulations when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.	Yes
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Use of potable water to clean, fill, or maintain decorative fountains, lakes, or ponds, unless such water is recycled.	Yes
2	CII - Other CII restriction or prohibition	0-1%	The use of potable water for compaction, dust control, and other types of construction shall be allowed only pursuant to a permit issued by the Department. Use of potable water for such purposes shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.	Yes
2	CII - Restaurants may only serve water upon request	0-1%	No restaurant, hotel, café, cafeteria or other public place where food is sold, served, or offered for sale, shall serve drinking water to any customer unless expressly requested.	Yes

	Landscape - Limit landscape irrigation to specific 2 times	0-15%	Golf course customers and commercial nursery customers shall curtail all non-essential water use and shall irrigate or water turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants only between the hours of 10:00 p.m. and 6:00 a.m., where possible. These customers shall reduce their potable water consumption by 15% of their prior year's consumption for the comparable billing period.	Yes
	Landscape - Limit landscape irrigation to specific 2 times	0-5%	The use of potable water for irrigating or watering turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems shall only be permitted between the hours of 6:00 p.m. and 8:00 a.m. Agricultural accounts are excluded from the time of irrigation restrictions. Drip irrigation and hand watering with a handheld hose with a positive shutoff nozzle or faucet filled bucket are exempt from these restrictions.	Yes
	Landscape - Limit landscape irrigation to specific 2 times	0-15%	Outdoor irrigation and watering of turf, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems in parks, schools, publicly-owned property, and the public rights-of-way shall be permitted only between the hours of 10:00 p.m. and 6:00 a.m. These customers shall reduce their potable water consumption by 15% of their prior year's consumption for the comparable billing period.	Yes

	2 Other	0-5%	The use of potable water for compaction, dust control, and other types of construction shall be allowed only pursuant to a permit issued by the Department. Use of potable water for such purposes shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.	Yes
	2 Other - Require automatic shut of hoses	0-1%	Washing of automobiles, boats, trailers, aircraft, and other types of mobile equipment shall be prohibited unless done with a hand-held bucket or hand-held hose equipped with a positive shutoff nozzle for quick rinses. This section does not apply to the washing of the above-listed vehicles or mobile equipment when conducted at a commercial car wash utilizing a recycling system. Provided, however, such washings are exempt from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.	Yes
	3 CII - Other CII restriction or prohibition	0-1%	Water used for compaction, dust control, and other types of construction shall only be authorized by a permit issued by the Department and shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.	Yes

3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants by all golf course customers shall be permitted only on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Golf course customers shall reduce their potable water consumption by 25% of their prior year's comparable billing period.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants by commercial nursery customers shall be permitted only on even numbered days between the hours of 11:00 p.m. and 6:00 a.m., and only with a hand-held hose equipped with a positive shutoff nozzle or with drip irrigation. Commercial nursery customers shall reduce their potable water consumption by 25% of the customer's prior year's consumption for the comparable billing period.	Yes

3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants at all publicly owned property shall be permitted only on even numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Water consumption at all publicly-owned property shall be reduced by 25% of the customer's prior year's comparable billing period unless they are using reclaimed water.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants at schools shall be permitted only on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Water consumption at all school property shall be reduced by 25% of the customer's prior year's comparable billing period.	Yes

	3 Landscape - Limit landscape irrigation to specific days	0-5%	Customers with addresses ending in an even number shall be permitted to irrigate or water on even numbered days only and customers with addresses ending in an odd number shall water on odd numbered days only. Such restrictions shall not apply to any customer whose property is equipped with an electronic moisture sensor control system and/or drip irrigation system. All watering shall be permitted only between the hours of 8:00 p.m. and 6:00 a.m.	Yes
	3 Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of automobiles, boats, trailers, aircraft, and other types of mobile equipment is prohibited. Washing of the above-listed vehicles or mobile equipment shall only be allowed at a commercial car wash utilizing recycling systems. Provided, however, such washings are exempt from these regulations when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.	Yes
	3 Other water feature or swimming pool restriction	0-1%	Swimming pools shall not be filled or refilled after being drained.	Yes
	3 Other water feature or swimming pool restriction	0-1%	Ornamental pools, fountains, and artificial lakes shall not be filled or refilled after being drained.	Yes
	4 CII - Other CII restriction or prohibition	0-1%	The issuance of new water service connections and meters shall be prohibited.	Yes
	4 CII - Other CII restriction or prohibition	0-5%	No potable water shall be used for construction purposes. All construction meters shall be locked off or removed.	Yes

	Landscape - Limit landscape irrigation to specific 4 days	0-5%	Commercial nursery customers shall water only on designated irrigation days (based on property address number) between the hours of 11:00 p.m. and 6:00 a.m. and only with a hand held hose equipped with a positive shutoff nozzle or with a drip irrigation system.	Yes
	Landscape - Prohibit certain types of landscape 4 irrigation	0-5%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants shall be prohibited for all other customers	Yes
	4 Other	0-1%	Washing of vehicles or mobile equipment used for purposes such as garbage collection or transporting foods shall only be allowed when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, and shall be authorized only pursuant to a permit issued by the Department.	Yes
	4 Other water feature or swimming pool restriction	0-1%	The filling, refilling, or adding of water to uncovered swimming or wading pools and spas shall be prohibited at all times.	Yes
	4 Water Features - Restrict water use for decorative water features, such as fountains	0-1%	The operation of any ornamental fountain or similar structure shall be prohibited.	Yes

8-3R | Supply Augmentation & Other Actions

STATUS: Published

NOTES: -

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
4	Other purchases	800 GPM	Emergency water system connections with the City of Riverside
4	Other purchases	1000 GPM	Emergency water system connections with Riverside Highland Water Company
4	Other purchases	1500 GPM	Emergency water system connections with WWWD

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of Colton	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	City of Colton		Reporting Period Start Date	1/1/2019
Water Delivery Product	Retail Potable Deliveries		Reporting Period End Date	12/31/2019
-	Urban Water Supplier Operational Control			
	Sum of all Water Management Process		Non-Consequential Hydropower	
	Total Utility		Hydropower	Net Utility
Volume of Water Entering Process (AF)	8495		0	8495
Energy Consumed (kWh)	9460560		0	9460560
Energy Intensity (kWh/AF)	1113.7		0.0	1113.7
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy		0.0 kWh
Data Quality Narrative	Total energy consumed in 2019 was quantified through meters for well production and watertreatment.			
Water Supply Narrative	The City of Colton's water supply is comprised entirely of groundwater extracted from the SBBA Bunker Hill Basin, Rialto-Colton Basin, and the Riverside North Basin.			

B-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	11,932	Acre Feet (AF)
	2008 total volume of delivered recycled water	0	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	0	Percent
	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	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES:

Method for Population Estimates

No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
Yes	3. DWR Population Tool
No	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES:

Year		Population
10 to 15 Year Baseline Population		
Year 1	1999	39,897
Year 2	2000	40,629
Year 3	2001	41,020
Year 4	2002	41,414
Year 5	2003	41,813
Year 6	2004	42,215
Year 7	2005	42,621
Year 8	2006	43,031
Year 9	2007	43,445
Year 10	2008	43,863
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	41,813
Year 2	2004	42,215
Year 3	2005	42,621
Year 4	2006	43,031
Year 5	2007	43,445
2020 Compliance Year Population		
2020		46,525

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	1,999	11,296			0		-	11,296
Year 2	2,000	12,855			0		-	12,855
Year 3	2,001	11,063			0		-	11,063
Year 4	2,002	12,000			0		-	12,000
Year 5	2,003	11,958			0		-	11,958
Year 6	2,004	12,096			0		-	12,096
Year 7	2,005	12,009			0		-	12,009
Year 8	2,006	12,484			0		-	12,484
Year 9	2,007	12,566			0		-	12,566
Year 10	2,008	11,932			0		-	11,932
Year 11	0	0			0		-	0
Year 12	0	0			0		-	0
Year 13	0	0			0		-	0
Year 14	0	0			0		-	0
Year 15	0	0			0		-	0
10 - 15 year baseline average gross water use:								12,026
5 Year Baseline - Gross Water Use								
Year 1	2,003	11,958			0		-	11,958
Year 2	2,004	12,096			0		-	12,096
Year 3	2,005	12,009			0		-	12,009
Year 4	2,006	12,484			0		-	12,484
Year 5	2,007	12,566			0		-	12,566
5 year baseline average gross water use:								12,223
2020 Compliance Year - Gross Water Use								
2020		9,244			0		-	9,244

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source			
Name of Source:		Bunker Hill Basin	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,999	6,348	6,348
Year 2	2,000	6,288	6,288
Year 3	2,001	5,338	5,338
Year 4	2,002	7,377	7,377
Year 5	2,003	7,382	7,382
Year 6	2,004	6,129	6,129
Year 7	2,005	5,807	5,807
Year 8	2,006	6,719	6,719
Year 9	2,007	6,886	6,886
Year 10	2,008	6,899	6,899
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,003	7,382	7,382
Year 2	2,004	6,129	6,129
Year 3	2,005	5,807	5,807
Year 4	2,006	6,719	6,719
Year 5	2,007	6,886	6,886
2020 Compliance Year - Water into Distribution System			
2020		2,623	2,623

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source			
Name of Source:		Rialto-Colton	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	0	3,046	3,046
Year 2	0	4,701	4,701
Year 3	0	3,893	3,893
Year 4	0	2,737	2,737
Year 5	0	3,554	3,554
Year 6	0	4,510	4,510
Year 7	0	3,946	3,946
Year 8	0	3,924	3,924
Year 9	0	4,010	4,010
Year 10	0	3,963	3,963
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	0	3,554	3,554
Year 2	0	4,510	4,510
Year 3	0	3,946	3,946
Year 4	0	3,924	3,924
Year 5	0	4,010	4,010
2020 Compliance Year - Water into Distribution System			
2020		2,899	2,899

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source				
Name of Source:		Riverside North		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	0	1,902		1,902
Year 2	0	1,866		1,866
Year 3	0	1,832		1,832
Year 4	0	268		268
Year 5	0	313		313
Year 6	0	1,235		1,235
Year 7	0	2,136		2,136
Year 8	0	1,687		1,687
Year 9	0	1,664		1,664
Year 10	0	1,070		1,070
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	0	313		313
Year 2	0	1,235		1,235
Year 3	0	2,136		2,136
Year 4	0	1,687		1,687
Year 5	0	1,664		1,664
2020 Compliance Year - Water into Distribution System				
2020		3,722		3,722

SB X7-4A | Volume Entering the Distribution System(s)

A purchased or imported source.			
Name of Source:		RHWC	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	0	0	0
Year 2	0	0	0
Year 3	0	0	0
Year 4	0	819	819
Year 5	0	236	236
Year 6	0	116	116
Year 7	0	0	0
Year 8	0	0	0
Year 9	0	6	6
Year 10	0	0	0
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	0	236	236
Year 2	0	116	116
Year 3	0	0	0
Year 4	0	0	0
Year 5	0	6	6
2020 Compliance Year - Water into Distribution System			
2020		0	0

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3	Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)	
10 to 15 Year Baseline GPCD				
Year 1	1999	39897	11296	253
Year 2	2000	40629	12855	283
Year 3	2001	41020	11063	241
Year 4	2002	41414	12000	259
Year 5	2003	41813	11958	255
Year 6	2004	42215	12096	256
Year 7	2005	42621	12009	252
Year 8	2006	43031	12484	259
Year 9	2007	43445	12566	258
Year 10	2008	43863	11932	243
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:			256	
5 Year Baseline GPCD				
Year 1	2003	41,813	11958	255
Year 2	2004	42,215	12096	256
Year 3	2005	42,621	12009	252
Year 4	2006	43,031	12484	259
Year 5	2007	43,445	12566.1	258
5 Year Average Baseline GPCD:			256	
2020 Compliance Year GPCD				
2020	46,525	9,244	177	

SB X7-6 | Gallons per Capita per Day

STATUS: Published

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	256
5 Year Baseline GPCD	256
2020 Compliance Year GPCD	177

SB X7-7 | 2020 Target Method

STATUS:

NOTES:

Select Only One	
Yes	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
No	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
256	205

SB X7-7E | 2020 Target Method 3

Select All that Apply	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets
		North Coast	137
		North Lahontan	173
		Sacramento River	176
		San Francisco Bay	131
		San Joaquin River	174
		Central Coast	123
		Tulare Lake	188
		South Lahontan	170
		South Coast	149
		Colorado River	211
Target (If more than one region is selected, this value is calculated.)			

SB X7-7F | Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD From SB X7-5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
256	243	205	205
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD. ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES:

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
205	256	230

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
177	205				0	177	177	YES

B-8: AWWA Water Audits



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 Colton (3610014)**
 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

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

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

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->			
Volume from own sources:	+ ?	5	9,161.200 acre-ft/yr
Water imported:	+ ?	n/a	0.000 acre-ft/yr
Water exported:	+ ?	n/a	0.000 acre-ft/yr

Master Meter and Supply Error Adjustments

	Pcnt:		Value:	
+ ?	3	<input type="radio"/>	<input type="radio"/>	acre-ft/yr
+ ?		<input type="radio"/>	<input type="radio"/>	acre-ft/yr
+ ?		<input type="radio"/>	<input type="radio"/>	acre-ft/yr

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

WATER SUPPLIED: **9,161.200** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	8,210.990 acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000 acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000 acre-ft/yr
Unbilled unmetered:	+ ?	5	22.903 acre-ft/yr

Click here: for help using option buttons below

	Pcnt:		Value:	
+ ?	0.25%	<input type="radio"/>	<input checked="" type="radio"/>	22.903 acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

AUTHORIZED CONSUMPTION: **8,233.893** acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

927.307 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **22.903** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	3	82.939 acre-ft/yr
Systematic data handling errors:	+ ?		20.527 acre-ft/yr

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

Apparent Losses: **126.370** acre-ft/yr

	Pcnt:		Value:	
+ ?	0.25%	<input checked="" type="radio"/>	<input type="radio"/>	acre-ft/yr

	Pcnt:		Value:	
+ ?	1.00%	<input type="radio"/>	<input checked="" type="radio"/>	acre-ft/yr
+ ?	0.25%	<input type="radio"/>	<input type="radio"/>	acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **800.937** acre-ft/yr

WATER LOSSES: **927.307** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **950.210** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	7	158.0 miles
Number of <u>active AND inactive</u> service connections:	+ ?	8	10,309
Service connection density:	?		65 conn./mile main

Are customer meters typically located at the curbstop or property 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	\$9,461,569 \$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	9	\$2.52 \$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$107.37 \$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)



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 Colton (3610014)**
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

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

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

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/> <input type="button" value="?"/> 8	9,680.900	acre-ft/yr
Water imported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Water exported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="?"/> 6	1.00%	<input type="text" value=""/>
<input type="button" value="+"/> <input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="button" value="+"/> <input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>

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

WATER SUPPLIED: **9,585.050** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/> <input type="button" value="?"/> 7	8,334.520	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/> <input type="button" value="?"/>	119.813	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **8,454.333** acre-ft/yr

Click here: for help using option buttons below

Pcnt:	Value:	acre-ft/yr
1.25%	<input type="text" value=""/>	<input type="text" value=""/>

Use buttons to select percentage of water supplied
OR
value

Pcnt:	Value:	acre-ft/yr
0.25%	<input type="text" value=""/>	<input type="text" value=""/>

Pcnt:	Value:	acre-ft/yr
1.00%	<input type="text" value=""/>	<input type="text" value=""/>
0.25%	<input type="text" value=""/>	<input type="text" value=""/>

WATER LOSSES (Water Supplied - Authorized Consumption)

1,130.716 acre-ft/yr

Apparent Losses

Unauthorized consumption: **23.963** acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/> <input type="button" value="?"/> 6	84.187	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/> <input type="button" value="?"/>	20.836	acre-ft/yr

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

Apparent Losses: **128.986** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **1,001.730** acre-ft/yr

WATER LOSSES: **1,130.716** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,250.530** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/> <input type="button" value="?"/> 8	170.7	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/> <input type="button" value="?"/> 8	10,237	
Service connection density:	<input type="button" value="?"/>	60	conn./mile main

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

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

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

Average operating pressure: 6 60.0 psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/> <input type="button" value="?"/> 10	\$10,116,169	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 9	\$1.82	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 5	\$187.62	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 73 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: Billed metered**



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 Colton (3610014)**
 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

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

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

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/> <input type="button" value="?"/> 8	9,613.960	acre-ft/yr
Water imported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Water exported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	
<input type="button" value="+"/> <input type="button" value="?"/> 6	1.00%	<input type="text" value=""/>
<input type="button" value="+"/> <input type="button" value="?"/> 6	<input type="text" value=""/>	<input type="text" value=""/>
<input type="button" value="+"/> <input type="button" value="?"/> 6	<input type="text" value=""/>	<input type="text" value=""/>

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

WATER SUPPLIED: **9,518.772** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/> <input type="button" value="?"/> 7	8,823.000	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> 5	118.985	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **8,941.985** acre-ft/yr

Click here: for help using option buttons below

Pcnt:	Value:	
1.25%	<input type="text" value=""/>	acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt:	Value:	
0.25%	<input type="text" value=""/>	acre-ft/yr

Pcnt:	Value:	
1.00%	<input type="text" value=""/>	acre-ft/yr
0.25%	<input type="text" value=""/>	acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

576.788 acre-ft/yr

Apparent Losses

Unauthorized consumption: 5 **23.797** acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/> <input type="button" value="?"/> 7	89.121	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/> <input type="button" value="?"/> 5	22.058	acre-ft/yr

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

Apparent Losses: **134.976** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **441.812** acre-ft/yr

WATER LOSSES: **576.788** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **695.772** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/> <input type="button" value="?"/> 8	169.0	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/> <input type="button" value="?"/> 9	10,060	
Service connection density:	<input type="button" value="?"/> 60	60	conn./mile main

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

Average length of customer service line: 7 (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:	<input type="button" value="+"/> <input type="button" value="?"/> 10	\$12,299,150	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 9	\$2.04	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 5	\$186.71	\$/acre-ft <input type="checkbox"/> 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: Variable production cost (applied to Real Losses)
- 3: Billed metered

Click to access definition
 Click to add a comment

Water Audit Report for: **City of Colton (3610014)**
 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: ACRE-FEET PER YEAR

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

WATER SUPPLIED

		----- Enter grading in column 'E' and 'J' ----->				Master Meter and Supply Error Adjustments	
Volume from own sources:	<input type="button" value="+"/> <input type="button" value="7"/>	<input type="text" value="8,595.250"/>	acre-ft/yr	<input type="button" value="+"/> <input type="button" value="3"/>	<input type="text" value="-1.60%"/>	<input type="text" value=""/>	acre-ft/yr
Water imported:	<input type="button" value="+"/> <input type="button" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr	<input type="button" value="+"/> <input type="button" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr
Water exported:	<input type="button" value="+"/> <input type="button" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr	<input type="button" value="+"/> <input type="button" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr

WATER SUPPLIED: acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/> <input type="button" value="9"/>	<input type="text" value="8,140.000"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/> <input type="button" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/> <input type="button" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/> <input type="button" value="5"/>	<input type="text" value="21.838"/>	acre-ft/yr

AUTHORIZED CONSUMPTION: acre-ft/yr

Click here: for help using option buttons below
 Pcnt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

acre-ft/yr

Apparent Losses

Unauthorized consumption:	<input type="button" value="+"/> <input type="button" value=""/>	<input type="text" value="21.838"/>	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed			
Customer metering inaccuracies:	<input type="button" value="+"/> <input type="button" value="8"/>	<input type="text" value="123.959"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/> <input type="button" value=""/>	<input type="text" value="20.350"/>	acre-ft/yr
Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed			
Apparent Losses:	<input type="button" value=""/>	<input type="text" value="166.147"/>	acre-ft/yr

Pcnt: Value: acre-ft/yr
 acre-ft/yr
 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: acre-ft/yr
WATER LOSSES: acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/> <input type="button" value="8"/>	<input type="text" value="169.0"/>	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/> <input type="button" value="9"/>	<input type="text" value="10,353"/>	
Service connection density:	<input type="button" value=""/>	<input type="text" value="61"/>	conn./mile main

Are customer meters typically located at the curbside or property 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: psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/> <input type="button" value="10"/>	<input type="text" value="\$15,420,262"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/> <input type="button" value="9"/>	<input type="text" value="\$2.05"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/> <input type="button" value="5"/>	<input type="text" value="\$175.57"/>	\$/acre-ft <input type="checkbox"/> 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: Variable production cost (applied to Real Losses)**
- 3: Unauthorized consumption**

B-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRUWMP, however the WSCP may be amended separately in the future. Contact The City of Colton to obtain the most current version of the WSCP.

City of Colton Water Shortage Contingency Plan

JUNE 2021

City of Colton





CITY OF COLTON

Water Shortage Contingency Plan

City of Colton

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
LHMP	Local Hazard Mitigation Plan
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

City of Colton

This Water Shortage Contingency Plan is a strategic plan that the City of Colton (Colton) uses to prepare for and respond to water shortages.

A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that Colton will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help Colton maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with Colton's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes Colton's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes water shortage stages to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant the City the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, Colton completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. Colton is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, Colton implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, Colton’s water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, Colton will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, Colton must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to Colton at the time of analysis and can be update or revised at any time if circumstances change.

Colton will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **Water & Wastewater Utilities Superintendent**
- **Environmental Conservation Supervisor**
- **Public Works, Water, Wastewater Admin Manager**
- **Finance**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	Public Works, Water, Wastewater Admin Manager
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	<p>Each May, the allowable pumping from the Rialto Decree area is established based on water level measurements in three key index wells. The value for the prior year may be used for the annual assessment.</p> <p>The BTAC evaluates groundwater in storage each year. The Bunker Hill, Rialto-Colton, and Riverside North basins are sustainably managed to provide storage for use in dry years. In the unlikely event that local supplies are reduced, Colton will coordinate with the BTAC to identify anticipated supplies.</p>	Water & Wastewater Utilities Superintendent
JAN - FEB	Consider potential constraints that may impact supply delivery	<p>Identify any known regional or Colton infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity.</p> <p>Identify any facilities out of service due to water quality problems, equipment failure, etc. that may impact normal water deliveries.</p> <p>Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs.</p>	Water & Wastewater Utilities Superintendent
FEB	Convene WSCP Team to conduct Annual Assessment	<p>Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response stage and actions are recommended to reduce/eliminate the shortage.</p> <p>Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response</p>	WSCP Team

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JUNE	City Council	actions are needed to comply with the State mandate. If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the Colton City Council, including the recommended shortage stage and response actions. The City Council may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.	Department City Manager & Council
ON-GOING	Implement WSCP actions, if needed	Relevant members of Colton staff will implement shortage response actions associated with the declared water shortage stage.	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR.	position of person(s) resp

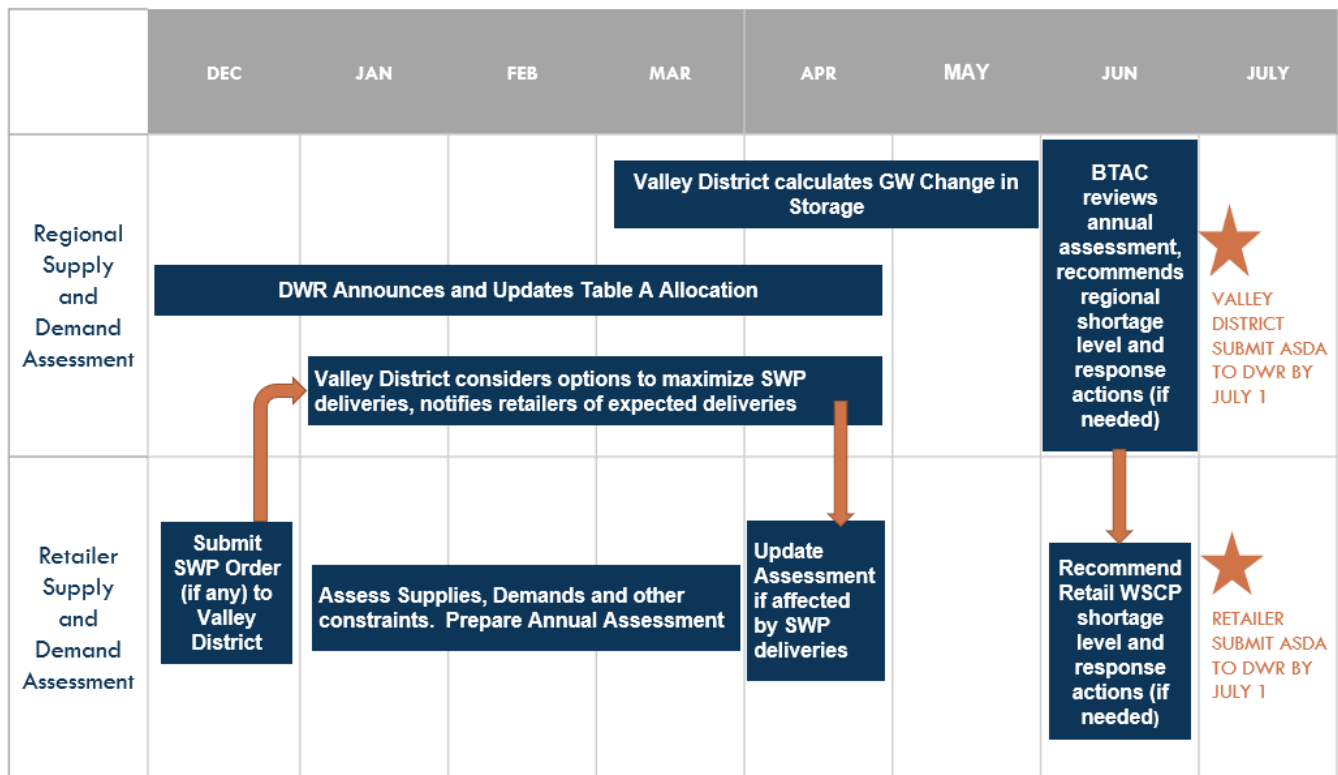


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

With the exception of a catastrophic failure of infrastructure, Colton does not foresee imposing a water shortage stage except under the State's direction, as occurred in 2014. If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that Colton may implement.

Colton uses four (4) shortage stages to identify and respond to water shortage emergencies. At a minimum, Colton encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I: Normal Conditions

Water Conservation Stage I applies during periods when the City is able to meet all of the water demands of its customers. Water Conservation Stage I is in effect at all times unless the City Council otherwise declares that another water conservation stage is in effect pursuant to this chapter.

Stage II: Water Alert

Stage II applies during periods when the City will not be able to meet all of the water demands of its customers.

Stage III: Water Warning

Stage III applies during periods when the City will not be able to meet all of the water demands of its customers.

Stage IV: Water Emergency

Stage IV shall apply when the ordinary demands and requirements of City water customers cannot be satisfied without depleting the City water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection. A water shortage emergency includes both an immediate emergency, in which the City is unable to meet current water needs of persons within the City, as well as a threatened water shortage, in which the City determines that its supply cannot meet an increased future demand. The use of water shall be limited to essential household, commercial, manufacturing, or processing uses only, except where other uses may be allowed pursuant to a permit issued by the Department. Other restrictions may be necessary during a declared Water Shortage Emergency, to safeguard the adequacy of the water supply for domestic, sanitation, fire protection, and environmental requirements.

The CWC outlines six standard water shortage stages that correspond to a gap in supply compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP plan that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. Colton is maintaining the current four shortage stages for this WSCP. A crosswalk defines how Colton's current water shortage stages will

align with the DWR’s standardized 6 stages of shortage. A visual representation of this alignment is shown in **Figure 2**

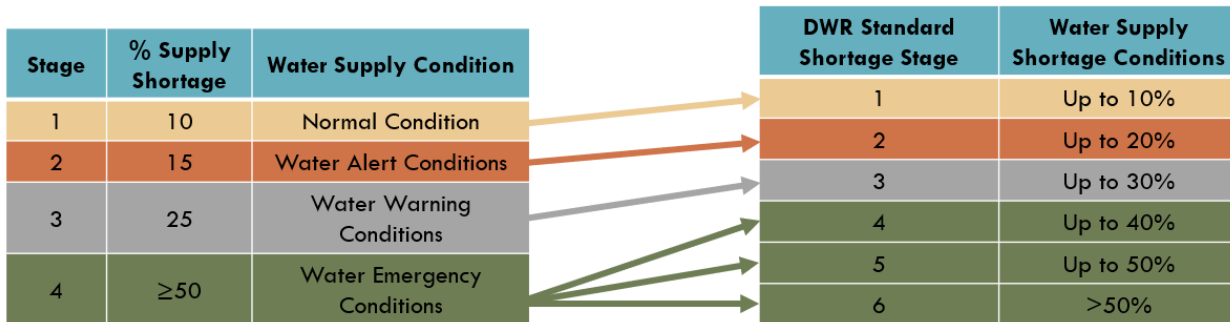


Figure 2. Crosswalk to DWR Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Condition (Colton Stage 1)
2	Up to 20%	Water Alert Conditions (Colton Stage 2)
3	Up to 30%	Water Warning Conditions (Colton Stage 3)
4	Up to 40%	Water Emergency Conditions (Colton Stage 4)
5	Up to 50%	Water Emergency Conditions (Colton Stage 4)
6	>50%	Water Emergency Conditions (Colton Stage 4)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that may be implemented for each stage to minimize social and economic impacts to the community.

In accordance with CWC 10632(b) Colton analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions Colton can take in the event of a water shortage condition. Colton has two emergency water system connections with the City of San Bernardino (1,000 GPM and 800 GPM); one with the City of Riverside (800 GPM); two with Riverside Highland Water Company (1,000 GPM and 800 GPM), and one with WWD (1,500 GPM). During water shortage emergencies, Colton may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
4	Other purchases	0-100%	Emergency water system connections with the City of Riverside
4	Other purchases	0-100%	Emergency water system connections with Riverside Highland Water Company
4	Other purchases	0-100%	Emergency water system connections with WVWD

4.2 Demand Reduction

In addition to prohibitions on end uses, Colton offers various rebates to encourage conservation (i.e. ultra-low flush toilet replacements, high efficiency washing machines, etc.). Colton has a water rate structure that promotes water efficiency. The reduction goal is to balance supply and demand. [Table 4](#) summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
	CII - Restaurants may only serve water upon request	0-1%	All restaurants are requested not to serve water to their customers unless specifically requested by the customer.	No
1	Landscape - Limit landscape irrigation to specific times	0-5%	Use of potable water for irrigating or watering turf, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems should only be done between the hours of 6:00 p.m. and 10:00 a.m. (agricultural accounts are excluded from the time of irrigation restrictions). Drip irrigation and hand watering with a handheld hose or faucet filled bucket are exempt from this recommendation	No
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Sprinklers and irrigation systems should be adjusted to avoid overspray, runoff in excess of five (5) minutes, or other waste.	No
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Permitting potable water to escape from leaks within the customer’s plumbing system. All water leaks from a customer’s plumbing system shall be repaired in a timely manner.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
1	Other - Prohibit use of potable water for washing hard surfaces	0-1%	Use of potable water to clean sidewalks, walkways, driveways, parking areas, patios, porches, verandas, tennis courts, or other paved, concrete, or other hard surface areas, except where necessary for the benefit of public health or safety.	Yes
1	Other - Require automatic shut of hoses	0-1%	Washing of automobiles, boats, trailers, aircraft, or other vehicles by hose without a shutoff nozzle and bucket, except to wash such vehicles at commercial or fleet vehicle washing facilities. Provided, however, such washings are exempt from these regulations when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.	Yes
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Use of potable water to clean, fill, or maintain decorative fountains, lakes, or ponds, unless such water is recycled.	Yes
2	CII - Other CII restriction or prohibition	0-1%	The use of potable water for compaction, dust control, and other types of construction shall be allowed only pursuant to a permit issued by the Department. Use of potable water for such purposes shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.	Yes
2	CII - Restaurants may only serve water upon request	0-1%	No restaurant, hotel, café, cafeteria, or other public place where food is sold, served, or offered for sale, shall serve drinking water to any customer unless expressly requested.	Yes
2	Landscape - Limit landscape irrigation to specific times	0-15%	Golf course customers and commercial nursery customers shall curtail all non-essential water use and shall irrigate or water turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants only between the hours of 10:00 p.m. and 6:00 a.m., where possible. These customers shall reduce their potable water consumption by 15% of their prior year's consumption for the comparable billing period.	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	The use of potable water for irrigating or watering turf, groundcover, gardens, landscaped areas, trees, shrubs, or other	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			plants utilizing individual sprinkler systems shall only be permitted between the hours of 6:00 p.m. and 8:00 a.m. Agricultural accounts are excluded from the time of irrigation restrictions. Drip irrigation and hand watering with a handheld hose with a positive shutoff nozzle or faucet filled bucket are exempt from these restrictions.	
2	Landscape - Limit landscape irrigation to specific times	0-15%	Outdoor irrigation and watering of turf, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems in parks, schools, publicly owned property, and the public rights-of-way shall be permitted only between the hours of 10:00 p.m. and 6:00 a.m. These customers shall reduce their potable water consumption by 15% of their prior year's consumption for the comparable billing period.	Yes
2	Other	0-5%	The use of potable water for compaction, dust control, and other types of construction shall be allowed only pursuant to a permit issued by the Department. Use of potable water for such purposes shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.	Yes
2	Other - Require automatic shut of hoses	0-1%	Washing of automobiles, boats, trailers, aircraft, and other types of mobile equipment shall be prohibited unless done with a hand-held bucket or hand-held hose equipped with a positive shutoff nozzle for quick rinses. This section does not apply to the washing of the above-listed vehicles or mobile equipment when conducted at a commercial car wash utilizing a recycling system. Provided, however, such washings are exempt from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.	Yes
3	CII - Other CII restriction or prohibition	0-1%	Water used for compaction, dust control, and other types of construction shall only be authorized by a permit issued by the Department and shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants by all golf course customers shall be permitted only on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Golf course customers shall reduce their potable water consumption by 25% of their prior year's comparable billing period.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants by commercial nursery customers shall be permitted only on even numbered days between the hours of 11:00 p.m. and 6:00 a.m., and only with a hand-held hose equipped with a positive shutoff nozzle or with drip irrigation. Commercial nursery customers shall reduce their potable water consumption by 25% of the customer's prior year's consumption for the comparable billing period.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants at all publicly owned property shall be permitted only on even numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Water consumption at all publicly owned property shall be reduced by 25% of the customer's prior year's comparable billing period unless they are using reclaimed water.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-25%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants at schools shall be permitted only on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Water consumption at all school property shall be reduced by 25% of the customer's prior year's comparable billing period.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
3	Landscape - Limit landscape irrigation to specific days	0-5%	Customers with addresses ending in an even number shall be permitted to irrigate or water on even numbered days only and customers with addresses ending in an odd number shall water on odd numbered days only. Such restrictions shall not apply to any customer whose property is equipped with an electronic moisture sensor control system and/or drip irrigation system. All watering shall be permitted only between the hours of 8:00 p.m. and 6:00 a.m.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of automobiles, boats, trailers, aircraft, and other types of mobile equipment is prohibited. Washing of the above-listed vehicles or mobile equipment shall only be allowed at a commercial car wash utilizing recycling systems. Provided, however, such washings are exempt from these regulations when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.	Yes
3	Other water feature or swimming pool restriction	0-1%	Swimming pools shall not be filled or refilled after being drained.	Yes
3	Other water feature or swimming pool restriction	0-1%	Ornamental pools, fountains, and artificial lakes shall not be filled or refilled after being drained.	Yes
4	CII - Other CII restriction or prohibition	0-1%	The issuance of new water service connections and meters shall be prohibited.	Yes
4	CII - Other CII restriction or prohibition	0-5%	No potable water shall be used for construction purposes. All construction meters shall be locked off or removed.	Yes
4	Landscape - Limit landscape irrigation to specific days	0-5%	Commercial nursery customers shall water only on designated irrigation days (based on property address number) between the hours of 11:00 p.m. and 6:00 a.m. and only with a handheld hose equipped with a positive shutoff nozzle or with a drip irrigation system.	Yes
4	Landscape - Prohibit certain types of landscape irrigation	0-5%	Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants shall be prohibited for all other customers	Yes
4	Other	0-1%	Washing of vehicles or mobile equipment used for purposes such as garbage	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			collection or transporting foods shall only be allowed when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning and shall be authorized only pursuant to a permit issued by the Department.	
4	Other water feature or swimming pool restriction	0-1%	The filling, refilling, or adding of water to uncovered swimming or wading pools and spas shall be prohibited at all times.	Yes
4	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	The operation of any ornamental fountain or similar structure shall be prohibited.	Yes

4.3 Operational Changes and Additional Mandatory Restrictions

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. Colton will consider their operational procedures when it completes its Annual Assessment. Any additional mandatory restrictions implemented in response to the declaration of a shortage response stage, beyond the actions listed in [Table 3](#) and [Table 4](#) are listed in Colton’s Water Conservation Rules and Regulations Ordinance Number 08-15, provided in [Attachment 1](#).

4.4 Emergency Response Plan

In 2021, Colton will complete a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America’s Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of Colton’s infrastructure. The RRA will assess Colton’s water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of Colton’s system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential and for use by Colton’s staff only. However, Colton can confirm that these plans meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to Colton’s infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, Colton is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. Colton may also implement its four-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 4), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In addition to the AWIA RRA and ERP, the City of Colton has a 2018 Local Hazard Mitigation Plan (LHMP) that includes an assessment of seismic risk and mitigation for water facilities. The LHMP is included as [Attachment 2](#).

The seismic hazards evaluated include fault rupture, liquefaction and seismic shaking and assessed the threat to critical facilities, including the water system. The LHMP identified a set of hazard mitigation actions that are intended to reduce the impact of hazard, including:

- Conduct a seismic analysis of all City-owned key facilities and retrofit vulnerable facilities.
- Consider the use of flexible water pipes, particularly near Alquist-Priolo fault zones, to enhance seismic resiliency.

4.6 Shortage Response Action Effectiveness

Colton has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#) when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

Colton prioritizes effective communication, especially in times of a water shortage emergency. Colton routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, direct mail pieces, newspaper and bus shelter advertisements, news releases, social media outreach, and website content. Colton continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

Violations – In addition to the remedy of criminal prosecution available to the City as described in Subsection 13.28.100, a violation of any water use restrictions of this chapter 13.28 currently in effect may result in the imposition of fines, water use restrictions, and/or termination of water service as set forth below:

1. **First Violation – Notice of Non-compliance.** A written warning, accompanied by a copy of this Ordinance, will be delivered by U.S. Mail and/or hung on customer's door. Any such notice of violation shall specify a reasonable period to achieve compliance and shall be directed to the customer of record for the premises where the noncompliance was observed.
2. **Second Violation – Warning.** A written warning and notice of the future imposition of a fine to be collected on the customer's utility bill will be issued. Any such notice of violation shall require compliance within in three calendar days and shall be directed to the customer of record for the premises where the noncompliance was observed. Delivery will be made by Certified U.S. Mail and/or by personal delivery with a declaration of delivery returned to the City Manager.
3. **Third Violation (within one year).** A citation will be issued and a fine of \$100.00 will be imposed and collected on the customer's next regular utility bill.
4. **Fourth Violation (within one year of the first violation).** A citation will be issued, a fine of \$200.00 will be imposed and collected on the customer's next regular utility bill, and a flow restricting device will be installed on the meter serving the customer's property for a minimum of ninety-six (96) hours. The restricted flow shall meet minimum County Health Department

standards if any have been established. If the ninety-six-hour period ends on a weekend or holiday, full service will be restored during the next business day.

5. **Fifth Violation (within one year of the first violation).** A citation will be issued, a fine of \$500.00 will be imposed, and service will be terminated for such period as the City Manager determines to be appropriate under the circumstances. Prior to termination of service, the customer may submit an appeal pursuant to the procedures set forth in Section 13.28.120. Written notice of a hearing to consider any appeal shall be mailed to the customer at least ten calendar days before the hearing.

Any person subject to a fine pursuant to this Section 13.28.100 may file an appeal pursuant to Section 13.28.120.

7.0 Legal Authorities

Ordinances of the City Council of the City of Colton Prohibiting the Wasteful Use of Water and Setting Forth Regulations and Restrictions on Water Use are included in the City of Colton's most recent Water Conservation Rules and Regulations Ordinance Number 08-15, included as [Attachment 1](#). Said ordinances include prohibitions on various wasteful water uses such as lawn watering during mid-day hours, washing sidewalks and driveways with potable water, and allowing plumbing leaks to go uncorrected more than 24 hours after customer notification.

7.1 Water Shortage Emergency Declaration

In accordance with CWC Section Division 1, Section 350 – Colton shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, Colton shall coordinate with any the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

To ensure Colton's customers comply with Water Conservation Rules and Regulations Ordinance Number 08-15 and CWC Chapter 3.3 (Excessive Residential Water Use During Drought), additional costs may be incurred to monitor and enforce response actions. The incurred cost may vary depending on the shortage stage and duration of the water shortage emergency.

Surplus revenues are placed in Colton's reserve, which is used to fund emergency repairs and capital improvements for the water system. The financial reserve is adequate to address the costs of multiple plant repairs. The City projects that water shortages will have a minimal impact on water sales, and it is adequately funded to respond to emergencies. During a shortage, Colton anticipates increased staff costs, increased operation and maintenance costs, decreased water sales revenue, all of which will impact the reserve fund. Use of the existing reserve fund is the primary means to deal with revenue impacts due to shortage, but Colton will seek a rate adjustment in an extended shortage. If shortage is due to a natural disaster, Colton will seek funding assistance from the Federal Emergency Management Agency.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. Colton will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to Colton's Board for discretionary approval. Once discretionary approval has been granted, Colton will hold a public hearing, obtain any comments, and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

Colton adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in May/June 2021 and a public hearing was held on **June 15, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The Colton City Council adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 15, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on the City of Colton web site.

If Colton identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

The WSCP will be presented for adoption to Colton's Board at a public City Council meeting. The Council may submit any comments prior to approval and adoption. The WSCP will be submitted to DWR at the same time as the 2020 Urban Water Management Plan. The WSCP will be made available to all staff, customers, and any affected cities, counties, or other members of the public at the Colton office and online.

References

- California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.
- Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.
- United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: City of Colton Water Conservation Rules and Regulations Ordinance

1 **ORDINANCE NO. O-08-15**

2 **AN ORDINANCE OF THE CITY OF COLTON PRESCRIBING**
3 **TEMPORARY WATER CONSERVATION RULES AND REGULATIONS**
4 **AND AMENDING TITLE 13, BY ADDING SUBSECTION 13.28.080C**

5 **WHEREAS**, California Constitution article X, section 2 and California Water Code
6 section 100 provide that because of conditions prevailing in the state of California (the
7 “State”), it is the declared policy of the State that the general welfare requires that the water
8 resources of the State shall be put to beneficial use to the fullest extent of which they are
9 capable, the waste, unreasonable use, or unreasonable method of use of water shall be
10 prevented, and the conservation of such waters is to be exercised with a view to the
11 reasonable and beneficial use thereof in the interest of the people and the public welfare, and;

12 **WHEREAS**, pursuant to California Water Code section 106, it is the declared policy
13 of the State that the use of water for domestic use is the highest use of water and that the next
14 highest use is for irrigation, and;

15 **WHEREAS**, pursuant to California Water Code section 375, the City of Colton (the
16 “City”) is authorized to adopt and enforce a water conservation program to reduce the
17 quantity of water used by persons within its jurisdiction for the purpose of conserving the
18 water supplies of the City, and;

19 **WHEREAS**, on April 25, 2014, the Governor signed an Executive Order directing the
20 SWRCB to adopt emergency regulations as it deems necessary pursuant to Water Code
21 section 1058.5, to ensure that water suppliers in California implement drought response plans
22 to limit outdoor irrigation and other wasteful water practices, and;

23 **WHEREAS**, on April 1, 2015, the Governor signed an Executive Order that, in part,
24 directs the SWRCB to impose restrictions on water suppliers to achieve a statewide 25
25 percent reduction in potable urban usage through February, 2016; require commercial,
26 industrial, and institutional users to implement water efficiency measures; prohibit irrigation
27 with potable water or ornamental turf in public street medians; and prohibit irrigation with
28 potable water outside newly constructed homes and buildings that is not delivered by drip or
29 microspray, and;

30 **WHEREAS**, on May 5, 2015, the SWRCB formally adopted Emergency Regulations
31 for Statewide Urban Water Conservation (“Emergency Regulations”) to enact emergency
32 regulations for water suppliers effective June 1, 2015, and expiring February 28, 2016, unless
33 the SWRCB determines that it is no longer necessary due to changed conditions, or unless the
34 SWRCB renews the regulations due to continued drought conditions as described in Water
35 Code section 1058.5, and;

36 **WHEREAS**, because of the prevailing conditions in the State, the continued current
37 statewide drought, and the declared policy of the State, the City hereby finds and determines
38 that it is necessary and appropriate for the City to adopt, implement, and enforce temporary
39 water conservation regulations to reduce the quantity of water used by consumers within the
40 City to ensure that there is sufficient water for human consumption, sanitation, and fire
41 protection, and;

42 **WHEREAS**, pursuant to California Water Code section 350 the City Council is
43 authorized to declare a water shortage emergency to prevail within its jurisdiction when it
44 finds and determines that the City will not be able to or cannot satisfy the ordinary demands
45 and requirements of water consumers without depleting the water supply of the City to the
46 extent that there would be insufficient water for human consumption, sanitation, and fire
47 protection, and;

1 protection, and as more fully set forth in this chapter, and;

2 **WHEREAS**, in the event the City determines that it is necessary to declare that a
3 water shortage emergency exists, the City will be authorized pursuant to this chapter to
4 implement certain drought response measures and a water conservation and regulatory
5 program to regulate water consumption activities within the City and ensure that the water
6 delivered in the City is put to beneficial use for the greatest public benefit, with particular
7 regard to domestic use, including human consumption, sanitation, and fire protection, and that
8 the waste, unreasonable use, or unreasonable method of use of water is prevented, and;

6 **WHEREAS**, the City is authorized to prescribe and define by ordinance restrictions,
7 prohibitions, and exclusions for the use of water during a threatened or existing water
8 shortage and adopt and enforce a water conservation and regulatory program to: (i) prohibit
9 the wastage of City water or the use of City water during such period; (ii) prohibit use of
10 water during such periods for specific uses which the City may from time to time find
11 nonessential; and (iii) reduce and restrict the quantity of water used by those persons within
12 the City for the purpose of conserving the water supplies of the City, and;

10 **WHEREAS**, the City hereby finds and determines that pursuant to the provisions of
11 Title 13, Chapter 13.28 of the City of Colton Municipal Code, as hereby amended, the City
12 shall: (i) implement water conservation and water shortage response measures; (i) regulate the
13 water consumption activities of persons within the City for the purposes of conserving and
14 protecting the City’s water supplies, reducing the quantity of water consumed, and deterring
15 and preventing the waste or unreasonable use or unreasonable method of use of valuable
16 water resources; and (ii) establish and collect regulatory fees and impose fines and penalties
17 as set forth herein to accomplish these purposes and recover the costs of the City’s water
18 conservation and regulatory program, and;

15 **WHEREAS**, the City Council hereby finds and determines that it is desirable to
16 codify the rules and regulations governing its actions, and the actions of persons using and
17 consuming water within the City, particularly during declared water shortages and water
18 shortage emergencies, to protect the general welfare and the City’s water supplies, and to
19 reduce water consumption in accordance with the declared policies and laws of the State.

18 **NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF COLTON,
19 CALIFORNIA DOES HEREBY ORDAIN AS FOLLOWS:**

20 Section 1. The City hereby finds and determines that the above recitals are true and
21 correct and incorporated herein.

21 Section 2. Title 13 of the City of Colton Municipal Code is hereby amended by updating
22 Subsection 13.28.030C, entitled “Stage III, Water Warning”, to read as follows:

23 C. Stage III, Water Warning. Stage III applies during periods when the City will not be
24 able to meet all of the water demands of its customers. The following mandatory
25 conservation measures shall apply during Stage III:

- 25 1. All measures listed under Stage I (Section 13.28.080A) and Stage II (Section
26 13.28.080B).
- 27 2. Washing of automobiles, boats, trailers, aircraft, and other types of mobile
28 equipment is prohibited. Washing of the above-listed vehicles or mobile
equipment shall only be allowed at a commercial car wash utilizing recycling

1 systems. Provided, however, such washings are exempt from these regulations
2 when the health, safety, and welfare of the public is contingent upon frequent
3 vehicle cleaning, such as garbage trucks and vehicles used to transport food or
perishables.

4 3. New water service connections may be permitted, but the use of potable water for
5 any new service connection before occupancy of any premises shall be permitted
6 only for essential construction and testing of landscape irrigation systems. The
installation of new landscaping for any new development and/or project must be
approved by the Department.

7 4. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas,
8 trees, shrubs, or other plants by commercial nursery customers shall be permitted
9 only on even numbered days between the hours of 11:00 p.m. and 6:00 a.m., and
10 only with a hand-held hose equipped with a positive shutoff nozzle or with drip
11 irrigation. Commercial nursery customers shall reduce their potable water
consumption by 25% of the customer's prior year's consumption for the
comparable billing period.

12 5. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas,
13 trees, shrubs, or other plants by all golf course customers shall be permitted only
14 on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the
15 applicable irrigation system is equipped with an electronic moisture sensor control
16 system, a weather based irrigation controller and/or drip irrigation system.
Irrigation shall be allowed to run for no more than 15 minutes per station per
occurrence. Golf course customers shall reduce their potable water consumption
by 25% of their prior year's comparable billing period.

17 6. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas,
18 trees, shrubs, or other plants at schools shall be permitted only on odd numbered
19 days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable
20 irrigation system is equipped with an electronic moisture sensor control system, a
21 weather based irrigation controller and/or drip irrigation system. Irrigation shall be
allowed to run for no more than 15 minutes per station per occurrence. Water
consumption at all school property shall be reduced by 25% of the customer's
prior year's comparable billing period.

22 7. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas,
23 trees, shrubs, or other plants at all publicly-owned property shall be permitted only
24 on even numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the
25 applicable irrigation system is equipped with an electronic moisture sensor control
26 system, a weather based irrigation controller and/or drip irrigation system.
Irrigation shall be allowed to run for no more than 15 minutes per station per
27 occurrence. Water consumption at all publicly-owned property shall be reduced by
25% of the customer's prior year's comparable billing period unless they are using
reclaimed water.

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- 8. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants for all other customers shall only be permitted as follows:
 - i. Customers with addresses ending in an even number shall be permitted to irrigate or water on Mondays, Wednesdays and Saturdays only, customers with addresses ending in an odd number shall water on Tuesdays, Thursdays and Saturdays only. Such restrictions shall not apply to any customer whose property is equipped with an electronic moisture sensor control system, a weather based irrigation controller and/or drip irrigation system.
 - ii. All watering shall be permitted only between the hours of 8:00 p.m. and 6:00 a.m.
 - iii. Irrigation shall be allowed to run for no more than 10 minutes per station per occurrence.
- 9. The application of potable water, by any customer type, to outdoor landscapes during and within 48 hours after measurable rainfall is prohibited, unless the property is equipped with an electronic moisture sensor control system and/or a weather based irrigation controller.
- 10. Water being used during repair or maintenance of a customer's watering system shall be exempt from this section.
- 10. Swimming pools, ornamental pools, fountain and artificial lakes shall not be filled or refilled after being drained, unless prior approval is obtained from the Department.
- 11. Water used for compaction, dust control, and other types of construction shall only be authorized by a permit issued by the Department and shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.
- 12. All agricultural customers shall irrigate or water only at times approved by the Department.
- 13. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.

1 Section 3. This Ordinance shall be effective immediately upon its adoption.
2 Introduced at a regular meeting of the City Council of the City of Colton, California, held on
June 2, 2015;

3 Enacted at a regular meeting of the City Council of the City of Colton, California, held on
4 June 16, 2015.

5
6
7 Richard A. DeLaRosa, Mayor

8 ATTEST:

9
10 Carolina R. Padilla, City Clerk

ORDINANCE NO. _O-09-14_

AN ORDINANCE OF THE CITY OF COLTON PRESCRIBING WATER CONSERVATION RULES AND REGULATIONS AND AMENDING TITLE 13, BY ADDING CHAPTER 13.28

WHEREAS, California Constitution article X, section 2 and California Water Code section 100 provide that because of conditions prevailing in the state of California (the “State”), it is the declared policy of the State that the general welfare requires that the water resources of the State shall be put to beneficial use to the fullest extent of which they are capable, the waste or unreasonable use of water shall be prevented, and the conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and the public welfare; and

WHEREAS, pursuant to California Water Code section 106, it is the declared policy of the State that the use of water for domestic use is the highest use of water and that the next highest use is for irrigation; and

WHEREAS, pursuant to California Water Code section 375, the City of Colton (the “City”) is authorized to adopt and enforce a water conservation program to reduce the quantity of water used by persons within its jurisdiction for the purpose of conserving the water supplies of the City; and

WHEREAS, on April 25, 2014, the Governor signed an Executive Order directing the State Water Resource Control Board (SWRCB) to adopt emergency regulations as it deems necessary pursuant to Water Code section 1058.5, to ensure that water suppliers in California implement drought response plans to limit outdoor irrigation and other wasteful water practices; and

WHEREAS, on July 15, 2014, the SWRCB formally adopted Emergency Regulations for Statewide Urban Water Conservation (“Emergency Regulations”) to enact emergency regulations for water suppliers effective July 28, 2014, and expiring 270 days thereafter, unless the SWRCB determines that it is no longer necessary due to changed conditions, or unless the SWRCB renews the regulations due to continued drought conditions as described in Water Code section 1058.5; and

WHEREAS, the SWRCB Emergency Regulations prohibit certain types of water use; and

WHEREAS, the SWRCB Emergency Regulations urban water suppliers (as set forth in Water Code section 10617) to take action to either: (1) implement all requirements and actions of its water shortage contingency plan that imposes mandatory restrictions on outdoor irrigation of ornamental landscapes or turf with potable water; or (2) submit an alternate plan that includes allocation-based water rate structures that satisfy the requirements of chapter 3.4 (commencing with section 370) of division 1 of the Water Code; and

WHEREAS, because of the prevailing conditions in the State, the current statewide drought, and the declared policy of the State, the City hereby finds and determines that it is necessary and appropriate for the City to adopt, implement, and enforce a water conservation program to reduce the quantity of water used by consumers within the City to ensure that there is sufficient water for human consumption, sanitation, and fire protection; and

WHEREAS, pursuant to California Water Code section 350 the City Council is authorized to declare a water shortage emergency to prevail within its jurisdiction when it finds and determines that the City will not be able to or cannot satisfy the ordinary demands and requirements of water consumers without depleting the water supply of the City to the extent that there would be insufficient water for human consumption, sanitation, and fire protection, and as more fully set forth in this chapter; and

WHEREAS, in the event the City determines that it is necessary to declare that a water shortage emergency exists, the City will be authorized pursuant to this chapter to implement certain drought response measures and a water conservation and regulatory program to regulate water consumption activities within the City and ensure that the water delivered in the City is put to beneficial use for the greatest public benefit, with particular regard to domestic use, including human consumption, sanitation, and fire protection, and that the waste or unreasonable use of water is prevented; and

WHEREAS, the City is authorized to prescribe and define by ordinance restrictions, prohibitions, and exclusions for the use of water during a threatened or existing water shortage and adopt and enforce a water conservation and regulatory program to: (i) prohibit the wastage of City water or the use of City water during such period; (ii) prohibit use of water during such periods for specific uses which the City may from time to time find nonessential; and (iii) reduce and restrict the quantity of water used by those persons within the City for the purpose of conserving the water supplies of the City; and

WHEREAS, the City hereby finds and determines that pursuant to the provisions of Title 13, Chapter 13.28 of the City of Colton Municipal Code, as hereby amended, the City shall: (i) implement water conservation and water shortage response measures; (i) regulate the water consumption activities of persons within the City for the purposes of conserving and protecting the City's water supplies, reducing the quantity of water consumed, and deterring and preventing the waste or unreasonable use or unreasonable method of use of valuable water resources; and (ii) establish and collect regulatory fees and impose fines and penalties as set forth herein to accomplish these purposes and recover the costs of the City's water conservation and regulatory program; and

WHEREAS, the City Council hereby finds and determines that it is desirable to codify the rules and regulations governing its actions, and the actions of persons using and consuming water within the City, particularly during declared water shortages and water shortage emergencies, to protect the general welfare and the City's water supplies, and to reduce water consumption in accordance with the declared policies and laws of the State.

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF COLTON,
CALIFORNIA DOES HEREBY ORDAIN AS FOLLOWS:**

Section 1. The City hereby finds and determines that the above recitals are true and correct and incorporated herein.

Section 2. Title 13 of the City of Colton Municipal Code is hereby amended by adding Chapter 13.28, entitled “Water Conservation Plan,” to read as follows:

13.28.010 INTENT.

Pursuant to Article X, section 2 of the California Constitution, the City Council declares that the waters of the State are to be put to maximum beneficial use, that the waste or unreasonable use, or unreasonable method of use of water be prevented, and that the conservation of such water must occur to protect the people and property of the State. This chapter establishes the City of Colton Water Conservation Plan.

13.28.020 PURPOSE.

The purpose of this chapter is to adopt a water conservation plan that establishes water conservation measures that conserve City water supplies for the greatest public benefit and reduce the quantity of water used by the City’s water customers. The Water Conservation Plan is hereby established to extend and preserve the available water resources required for the basic needs of human consumption, sanitation and fire protection.

13.28.030 DEFINITIONS.

For the purposes of this chapter 13.28, the following words, terms, and phrases shall have the following meanings:

“City” means the City of Colton.

“City Manager” means the City Manager of the city or his authorized designee.

“Customer” means a person who, according to the city’s records, receives water service to a parcel of property.

“Department” means the City’s Water/Wastewater Department.

“Director” means the Director of the City Water/Wastewater Department or his authorized designee.

“Enforcement Officer” means any individual employed or otherwise charged by the City to inspect or enforce codes, ordinances, mandates, regulations, resolutions, rules or other laws adopted by the City Council or other regulatory bodies.

“Notice of Violation” means a notice provided by the City to any person who as violated any provisions of this Chapter 13.28.

“Person” means any natural person, firm, joint venture, joint stock company, partnership, public or private association, club, company, corporation, business trust, organization, public or private agency, government agency or institution, school district, college, university, any other user of water provided by the City, or the manager, lessee, agent, servant, officer or employee of any of them or any other entity which is recognized by law as the subject of rights or duties.

“Water Conservation Plan” means the water conservation plan established pursuant to this chapter.

“Water shortage emergency” means a condition existing within the city in which the ordinary water demands and requirements of persons within the city cannot be satisfied without depleting the water supply of the city to the extent that there would be insufficient water for human consumption, sanitation, and fire protection. A water shortage emergency includes both an immediate emergency, in which the city is unable to meet current water needs of persons within the city, as well as a threatened water shortage, in which the city determines that its supply cannot meet an increased future demand.

13.28.040 APPLICATION.

The provisions of this chapter shall apply to all persons, customers, and property served water by the City, and shall also apply to all property and facilities owned, maintained, operated, or otherwise under the jurisdiction of the City.

13.28.050 GENERAL PROHIBITION.

No water user shall make, cause, use, or permit the use of water supplied by the City for residential, commercial, industrial, agricultural, governmental or any other use in the manner contrary to this chapter. Waste or the unreasonable or non-beneficial use of water is prohibited in the City. Service may be terminated to any customer who knowingly and willfully violates any provision of this Chapter.

13.28.060 STAGE CRITERIA.

The Director shall recommend guidelines for adoption by the City Council setting forth the criteria to determine when water supply conditions in the City require the implementation or termination of each water conservation stage. Such guidelines shall be updated when the Director determines availability of water so requires.

13.28.070 DETERMINATION OF WATER CONSERVATION STAGES.

- A. The Department shall monitor the projected supply and demand for water by its customers on a daily basis during the months of June, July, August, September, and October and shall recommend to the City Manager the extent of conservation required through the implementation and/or termination of particular conservation stages to allow the Department to prudently plan for and supply water to its customers. Thereafter, the City Manager may recommend to the City Council the implementation or termination of the appropriate stage of water conservation in accordance with the applicable provisions of this chapter.
- B. The City Council may implement or terminate the appropriate conservation stage pursuant to Section 13.28.070 of this chapter. Notice of the implementation of successive stages of water conservation shall be given to water users immediately both by publication at least once in a newspaper of general circulation within ten (10) days after adoption, and by notice enclosed with the next regular city invoice for water utility service or delivered by U.S. Mail.

- C. If the City Council cannot meet in time to act to protect the public interest pursuant to this chapter, the City Manager or his designee is hereby authorized and directed to implement such provisions of this chapter upon his or her written determination that the City cannot supply adequate water to meet the ordinary demands of water consumers, and that such implementation is necessary to protect the public health or safety. Such written determination shall be presented to the City Council at its next meeting for review, revocation, or ratification. Such meeting shall be held as soon as possible.

13.28.080 WATER CONSERVATION STAGES AND IMPLEMENTATION.

- A. Stage I, Normal Conditions. Water Conservation Stage I applies during periods when the City is able to meet all of the water demands of its customers. Water Conservation Stage I is in effect at all times unless the City Council otherwise declares that another water conservation stage is in effect pursuant to this chapter. The following water conservation measures apply during Stage I:
1. The following water uses are recommended:
 - i. Water conservation should be practiced within homes and business at all times.
 - ii. Sprinklers and irrigation systems should be adjusted to avoid overspray, runoff in excess of five (5) minutes, or other waste.
 - iii. Use of potable water for irrigating or watering turf, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems should only be done between the hours of 6:00 p.m. and 10:00 a.m. (agricultural accounts are excluded from the time of irrigation restrictions). Drip irrigation and hand watering with a handheld hose or faucet filled bucket are exempt from this recommendation.
 - iv. All restaurants are requested not to serve water to their customers unless specifically requested by the customer.
 2. The following uses of water are hereafter considered non-essential to the public health, safety and welfare, constitute the waste of water, and are hereby prohibited at all times:
 - i. Use of potable water to clean sidewalks, walkways, driveways, parking areas, patios, porches, verandas, tennis courts, or other paved, concrete, or other hard surface areas, except where necessary for the benefit of public health or safety.
 - ii. Use of potable water to clean, fill, or maintain decorative fountains, lakes, or ponds, unless such water is recycled.
 - iii. Permitting potable water to escape from leaks within the customer's plumbing system. All water leaks from a customer's plumbing system shall be repaired in a timely manner.
 - iv. Washing of automobiles, boats, trailers, aircraft, or other vehicles by hose without a shutoff nozzle and bucket, except to wash such vehicles at commercial or fleet vehicle washing facilities. Provided, however, such washings are exempt from these regulations when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.

B. Stage II, Water Alert. Stage II applies during periods when the City will not be able to meet all of the water demands of its customers. The following mandatory conservation measures shall apply during Stage II:

1. All measures listed under Stage I, Subsection 13.28.080A.

The use of potable water for irrigating or watering turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems shall only be permitted between the hours of 6:00 p.m. and 8:00 a.m. Agricultural accounts are excluded from the time of irrigation restrictions. Drip irrigation and hand watering with a handheld hose with a positive shutoff nozzle or faucet filled bucket are exempt from these restrictions.

2. No restaurant, hotel, café, cafeteria or other public place where food is sold, served, or offered for sale, shall serve drinking water to any customer unless expressly requested.

3. Washing of automobiles, boats, trailers, aircraft, and other types of mobile equipment shall be prohibited unless done with a hand-held bucket or hand-held hose equipped with a positive shutoff nozzle for quick rinses. This section does not apply to the washing of the above-listed vehicles or mobile equipment when conducted at a commercial car wash utilizing a recycling system. Provided, however, such washings are exempt from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.

4. Golf course customers and commercial nursery customers shall curtail all non-essential water use and shall irrigate or water turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants only between the hours of 10:00 p.m. and 6:00 a.m., where possible. These customers shall reduce their potable water consumption by 15% of their prior year's consumption for the comparable billing period.

5. Outdoor irrigation and watering of turf, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinkler systems in parks, schools, publicly-owned property, and the public rights-of-way shall be permitted only between the hours of 10:00 p.m. and 6:00 a.m. These customers shall reduce their potable water consumption by 15% of their prior year's consumption for the comparable billing period.

6. The use of potable water for compaction, dust control, and other types of construction shall be allowed only pursuant to a permit issued by the Department. Use of potable water for such purposes shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.

C. Stage III, Water Warning. Stage III applies during periods when the City will not be able to meet all of the water demands of its customers. The following mandatory conservation measures shall apply during Stage III:

1. All measures listed under Stage I (Section 13.28.080A) and Stage II (Section 13.28.080B).

2. Washing of automobiles, boats, trailers, aircraft, and other types of mobile equipment is prohibited. Washing of the above-listed vehicles or mobile equipment shall only be allowed at a commercial car wash utilizing recycling systems. Provided, however, such washings are exempt from these regulations when health, safety, and welfare of the public is contingent

upon frequent vehicle cleaning, such as garbage trucks and vehicles used to transport food or perishables.

3. New water service connections shall be permitted, but the use of potable water for any new service connection before occupancy of any premises shall be permitted only for essential construction and testing of landscape irrigation systems. The installation of new landscaping for any new development and/or project must be approved by the Department.
4. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants by commercial nursery customers shall be permitted only on even numbered days between the hours of 11:00 p.m. and 6:00 a.m., and only with a hand-held hose equipped with a positive shutoff nozzle or with drip irrigation. Commercial nursery customers shall reduce their potable water consumption by 25% of the customer's prior year's consumption for the comparable billing period.
5. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants by all golf course customers shall be permitted only on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Golf course customers shall reduce their potable water consumption by 25% of their prior year's comparable billing period.
6. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants at schools shall be permitted only on odd numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Water consumption at all school property shall be reduced by 25% of the customer's prior year's comparable billing period.
7. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants at all publicly-owned property shall be permitted only on even numbered days, between the hours of 11:00 p.m. and 6:00 a.m., unless the applicable irrigation system is equipped with an electronic moisture sensor control system and/or drip irrigation system. Water consumption at all publicly-owned property shall be reduced by 25% of the customer's prior year's comparable billing period unless they are using reclaimed water.
8. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants for all other customers shall only be permitted as follows:
 - i. Customers with addresses ending in an even number shall be permitted to irrigate or water on even numbered days only and customers with addresses ending in an odd number shall water on odd numbered days only. Such restrictions shall not apply to any customer whose property is equipped with an electronic moisture sensor control system and/or drip irrigation system.
 - ii. All watering shall be permitted only between the hours of 8:00 p.m. and 6:00 a.m.
9. Water being used during repair or maintenance of a customer's watering system shall be exempt from this section.

10. Swimming pools, ornamental pools, fountain and artificial lakes shall not be filled or refilled after being drained.
 11. Water used for compaction, dust control, and other types of construction shall only be authorized by a permit issued by the Department and shall be limited to the conditions of the permit or may be prohibited as determined by the Director or his designee.
 12. All agricultural customers shall irrigate or water only at times approved by the Department.
- D. Stage IV, Water Emergency. Stage IV shall apply when the ordinary demands and requirements of City water customers cannot be satisfied without depleting the City water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection. A water shortage emergency includes both an immediate emergency, in which the City is unable to meet current water needs of persons within the City, as well as a threatened water shortage, in which the City determines that its supply cannot meet an increased future demand. The following mandatory conservation measures shall apply during Stage IV:
1. All measures listed under Stage I (Section 13.28.080A), Stage II (Section 13.28.080B), and Stage III (Section 13.28.080C).
 2. No potable water shall be used for construction purposes. All construction meters shall be locked off or removed.
 3. Commercial nursery customers shall water only on designated irrigation days (based on property address number) between the hours of 11:00 p.m. and 6:00 a.m. and only with a hand-held hose equipped with a positive shutoff nozzle or with a drip irrigation system.
 4. Outdoor irrigation or watering of turf, groundcover, gardens, landscaped areas, trees, shrubs, or other plants shall be prohibited for all other customers.
 5. The filling, refilling, or adding of water to uncovered swimming or wading pools and spas shall be prohibited at all times.
 6. The operation of any ornamental fountain or similar structure shall be prohibited.
 7. The issuance of new water service connections and meters shall be prohibited.
 8. Washing of vehicles or mobile equipment used for purposes such as garbage collection or transporting foods shall only be allowed when health, safety, and welfare of the public is contingent upon frequent vehicle cleaning, and shall be authorized only pursuant to a permit issued by the Department.
 9. The use of water shall be limited to essential household, commercial, manufacturing, or processing uses only, except where other uses may be allowed pursuant to a permit issued by the Department.
 10. Other restrictions may be necessary during a declared Water Shortage Emergency, to safeguard the adequacy of the water supply for domestic, sanitation, fire protection, and environmental requirements.

13.28.090 EXEMPTIONS.

- A. No exemption shall be granted to any person for any reason in the absence of a showing that the restrictions herein would:
 - 1. Cause an unnecessary and undue hardship to the person or the public; or
 - 2. Cause an emergency condition affecting the health, sanitation, fire protection or safety of the person or of the public.
- B. The City Manager may grant exemptions for uses of water otherwise prohibited by the regulations set forth in Chapter 13.28. Any person requesting an exemption from the provisions of Chapter 13.28 shall submit to the Department an application for an exemption stating the justified circumstances. The application shall be in a form prescribed by the Department. If the exemption is not granted, the person may submit an appeal in writing pursuant to Section 13.28.120.
- C. Inconvenience or the potential for damage to landscaping shall not be considered for exemption from any section of this Ordinance.
- D. When a Stage II or III has been declared and is in effect, a thirty-day exemption will be granted for the installation of drought tolerant landscaping, new construction or re-landscaping of property, only by a permit issued by the Department. No exemption shall be granted or permit issued when a Stage IV has been declared and is in effect.

13.28.100 ENFORCEMENT.

- A. Violations – In addition to the remedy of criminal prosecution available to the City as described in Subsection 13.28.100, a violation of any water use restrictions of this chapter 13.28 currently in effect may result in the imposition of fines, water use restrictions, and/or termination of water service as set forth below:
 - 1. First Violation – Notice of Non-compliance. A written warning, accompanied by a copy of this Ordinance, will be delivered by U.S. Mail and/or hung on customer's door. Any such notice of violation shall specify a reasonable period to achieve compliance, and shall be directed to the customer of record for the premises where the noncompliance was observed.
 - 2. Second Violation – Warning. A written warning and notice of the future imposition of a fine to be collected on the customer's utility bill will be issued. Any such notice of violation shall require compliance within in three calendar days, and shall be directed to the customer of record for the premises where the noncompliance was observed. Delivery will be made by Certified U.S. Mail and/or by personal delivery with a declaration of delivery returned to the City Manager.
 - 3. Third Violation (within one year). A citation will be issued and a fine of \$100.00 will be imposed and collected on the customer's next regular utility bill.
 - 4. Fourth Violation (within one year of the first violation). A citation will be issued, a fine of \$200.00 will be imposed and collected on the customer's next regular utility bill, and a flow restricting device will be installed on the meter serving the customer's property for a

minimum of ninety-six (96) hours. The restricted flow shall meet minimum County Health Department standards, if any have been established. If the ninety-six hour period ends on a weekend or holiday, full service will be restored during the next business day.

5. Fifth Violation (within one year of the first violation). A citation will be issued, a fine of \$500.00 will be imposed, and service will be terminated for such period as the City Manager determines to be appropriate under the circumstances. Prior to termination of service, the customer may submit an appeal pursuant to the procedures set forth in Section 13.28.120. Written notice of a hearing to consider any appeal shall be mailed to the customer at least ten calendar days before the hearing.
 6. Any person subject to a fine pursuant to this Section 13.28.100 may file an appeal pursuant to Section 13.28.120.
- B. Fines, Additional Charges. Any fine imposed pursuant to Chapter 13.28 shall be in addition to the basic water rates and other charges of the Department for the account and shall appear on and be payable with the billing statement for the period during which the violation occurred; non-payment shall be subject to the same remedies available to the Department as for non-payment of basic water rates.

In addition to any surcharge, a customer violating this Ordinance shall be responsible for payment of the Department's charges for installing and/or removing any flow restricting device and for disconnecting and/or reconnecting service per the Department's Water Rules and Rate Schedule then in effect. Such charges shall be paid prior to the removal of the flow restrictor or reconnection of service, whichever the case may be.

- C. Non-liability for Damage. The customer or resident who violates this chapter assumes responsibility for injury to the customer and/or other residents/occupants receiving service, including emotional distress and/or damage to the customer's private water system and/or to other real or personal property owned by the customer or by a third party resulting from the installation and operation of a flow restricting device or from termination of service; said customer shall thereby be deemed to have:
1. Waived any claim for injury or for damage to the customer's property which the customer may have otherwise have against the City; and
 2. Agreed to indemnify, defend, and hold the City harmless from claims by third parties for injury or property damage arising or claimed to arise out of the City's installation and/or operation of a flow restricting device or termination of water service.

13.28.110 AUTHORITY – MISDEMEANOR.

This Chapter is adopted pursuant to Section 375 of the California Water Code. Any second or subsequent violation of this Chapter 13.28 after notice is provided as specified in Section 13.280.100 may be prosecuted as a misdemeanor.

13.28.120 APPEALS.

- A. The City Manager, or his designated Enforcement Officer, shall determine when any violation of this Chapter 13.28 has occurred and shall issue a Notice of Violation. Any person receiving notice of a second or subsequent violation pursuant to Section 13.28.100 of this chapter shall have a right to a hearing by the City Manager. The customer's written request for a hearing must be received within ten calendar days of mailing or other delivery of the notice of violation. Any Notice of Violation not timely appealed shall be final. Upon receipt of a timely appeal, a hearing shall be scheduled within fifteen calendar days. Written notice of the hearing shall be mailed at least eight calendar days before the date of said hearing.
- B. The customer's written request for a hearing within the ten calendar day period shall automatically stay the imposition of monetary fines on the customer's utility bill until the City Manager renders his or her decision. The decision of the City Manager shall be final and not subject to further appeal pursuant to this code.
- C. Pending receipt of a written appeal or pending a hearing pursuant to an appeal, the City Manager or the Enforcement Officer may take appropriate steps to prevent the unauthorized use of water as appropriate to the nature and extent of the violation and the current declared water condition.

13.28.130 CITY MANAGER DELEGATION.

The City Manager may delegate all duties and responsibilities hereunder.

13.28.140 SEVERABILITY.

If any provision, section, subsection, sentence, clause or phrase of this chapter, or the application of same to any person or set of circumstances is held to be unconstitutional, void, or invalid, such decision shall not affect the remaining portions of this chapter which shall remain in full force and effect, and all provisions of this chapter are declared to be severable for that purpose.

13.28.150 INCOMPATIBLE PROVISIONS.

To the extent any provision of this chapter is incompatible with or at variance with any prior adopted ordinance or resolution, the provisions of this chapter shall take precedence, and all prior ordinances and resolutions shall be interpreted to harmonize with and not change the provisions of this chapter.

13.28.160 EXEMPTION FROM CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA).

The City Council determines that the adoption of this chapter and implementation of the measures set forth herein are exempt from review under the California Environmental Quality Act of 1970 because they constitute a project undertaken as immediate action necessary to prevent or mitigate a water shortage emergency, and to protect natural resources.

Section 3.

Upon adoption by the City Council, the provisions of this chapter shall become effective immediately. Notice of the implementation of successive stages of water conservation shall be

given to water users immediately both by publication at least once in a newspaper of general circulation within ten calendar days after adoption, and by notice enclosed with the next regular city invoice for water utility service or delivered by U.S. Mail.

Section 4.

Introduced at a regular meeting of the City Council of the City of Colton, California, held on September 2, 2014;

Enacted at a regular meeting of the City Council of the City of Colton, California, held on _____, 2014, by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

Mayor

Attest: _____
City Clerk

Appendix A
Internal/External Meeting Agendas,
Meeting Minutes and sign-in sheets

Attachment 3: Adoption Resolution

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RESOLUTION NO. R-72-21

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY
OF COLTON TO ADOPT A WATER SHORTAGE
CONTINGENCY PLAN.**

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a water shortage contingency plan (WSCP); and

WHEREAS, The City of Colton Water Department (CWD) meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, CWD has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the City of Colton Water Ordinance No. O-09-14, § 2, adopted on 9-16-2014; and

WHEREAS, in accordance with the UWMP Act, CWD has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the CWD's WSCP was published within the jurisdiction of the CWD on June 1, 2021 and June 15, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 15, 2021 at 6pm, or soon thereafter, virtually meeting in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, CWD, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the

1 community within CWD's service area with regard to the preparation of the WSCP, encouraged
2 community input regarding CWD's WSCP; and

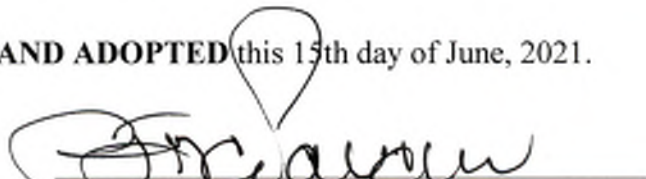
3 **WHEREAS**, the Colton City Council and Colton Utility Authority has reviewed and
4 considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the
5 documentation contained in the administrative record in support of the WSCP, and has determined that
6 the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

7 **WHEREAS**, the Colton City Council and Colton Utility Authority desires to adopt the WSCP
8 in order to comply with the UWMP Act.

9 **NOW THEREFORE BE IT RESOLVED**, the Colton City Council and Colton Utility Authority of the
10 CWD hereby resolve as follows:

- 11 1. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the
12 Colton City Council and Colton Utility Authority as a result of input received (if any) at the public
13 hearing and ordered filed with the Secretary of the Colton City Council and Colton Utility Authority ;
- 14 2. The Public Works and Utility Services Director is hereby authorized and directed to include a copy of
15 this Resolution in CWD's WSCP;
- 16 3. The Public Works and Utility Services Director is hereby authorized and directed, in accordance with
17 Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the
18 California Department of Water Resources no later than July 1, 2021;
- 19 4. The Public Works and Utility Services Director is hereby authorized and directed, in accordance with
20 Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city
21 of county within which the CWD provides water supplies no later than thirty (30) days after this adoption
22 date;
- 23 5. The Public Works and Utility Services Director is hereby authorized and directed, in accordance with
24 Water Code section 10645, to make the WSCP available for public review at The CWD's offices during
25 normal business hours and on The CWD's website no later than thirty (30) days after filing a copy of the
26 WSCP with the California Department of Water Resources;
- 27 6. The Public Works and Utility Services Director is hereby authorized and directed, in accordance with
28 Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code
Section 10635(a) to any city or county within which The CWD provides water supplies no later than sixty
(60) days after submitting a copy of the WSCP with the California Department of Water Resources;
7. The Public Works and Utility Services Director is hereby authorized and directed to implement the
WSCP in accordance with the UWMP Act and to provide recommendations to the Colton City Council
and Colton Utility Authority regarding the necessary budgets, procedures, rules, regulations or further
actions to carry out the effective and equitable implementation of the WSCP.

21 **PASSED, APPROVED AND ADOPTED** this 15th day of June, 2021.

22
23 
24 FRANK J. NAVARRO, Mayor

25 ATTEST:

26 
27 CAROLINA R. PADILLA, City Clerk
28

1 **STATE OF CALIFORNIA**)
2 **COUNTY OF SAN BERNARDINO**) ss.
3 **CITY OF COLTON**)

4 **CERTIFICATION**

5
6 **I, CAROLINA R. PADILLA**, City Clerk for the City of Colton, California, do hereby
7 certify that the foregoing is a full, true and correct copy of **RESOLUTION NO. R-72-21**,
8 duly adopted by the City Council of said City, and approved by the Mayor of said City, at its
9 Regular Meeting of said City Council held on the **15th day of June 2021**, and that it was
10 adopted by the following vote, to wit:

11	AYES:	COUNCILMEMBER	Toro, Cisneros, Koperski, Echevarria, González, Suchil, Mayor Navarro
12			
13	NOES:	COUNCILMEMBER	None
14	ABSTAIN:	COUNCILMEMBER	None
15	ABSENT:	COUNCILMEMBER	None
16			

17 **IN WITNESS WHEREOF**, I have hereunto set my hand and affixed the official seal of
18 the City of Colton, California, this ___ day of _____, ____.

19
20
21 _____
22 **CAROLINA R. PADILLA**
23 City Clerk
24 City of Colton

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27
28 (SEAL)

C

2020 IRUWMP Part 4 City of Loma Linda Appendix C



C-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 3 Part 1 Chapter 3
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	Part 2 Chapter 3 Executive Summary
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	Part 2 Chapter 3
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	Part 1 Chapter 1
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	Part 4 Appendix C-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 3 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 3 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 3 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 3 Chapter 3 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 3 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 3 Section 2.1.2
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	Part 2 Chapter 3 Section 2.2.1
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	Part 2 Chapter 3 Section 2.2
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	Part 2 Chapter 3 Section 2.1.2
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	Part 2 Chapter 3 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 3 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 3 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 3 Section 3.2
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
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	N/A
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	Part 4 Appendix C-7
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	Part 4 Appendix C-7
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	Part 2 Chapter 3 Section 4 Part 2 Chapter 3 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 3 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 3 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 3 Section 4.6.2 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 3 Section 4.7 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 3 Section 4.2
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	Part 2 Chapter 3 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 3 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 3 Section 4.2
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	Part 2 Chapter 3 Section 4.7
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	Part 2 Chapter 3 Section 4.6
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)	Part 2 Chapter 3 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 3 Section 4.5.1
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)	Part 2 Chapter 3 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 3 Section 4.5 Part 1 Chapter 3 Part 4 Appendix C-6
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 3 Section 4.5
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	Part 2 Chapter 3 Section 4.6.2 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 3 Section 4.8 Part 4 Appendix C-6
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	Water Supply Reliability Assessment	Part 2 Chapter 3 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 3 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 3 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 3 Section 6
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	Part 2 Chapter 3 Section 6
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	Part 2 Chapter 3 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 3 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix C-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix C-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix C-9 Section 10.0
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	Part 4 Appendix C-9 Section 2.0
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	Part 4 Appendix C-9 Section 2.0
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	Part 4 Appendix C-9 Section 3.0
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	Part 4 Appendix C-9 Section 3.0
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	Part 4 Appendix C-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix C-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix C-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix C-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix C-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix C-9 Section 4.4&4.5
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	Part 4 Appendix C-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix C-9 Section 5.0
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	Part 4 Appendix C-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix C-9 Section 7.0
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	Part 4 Appendix C-9 Section 7.0
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	Part 4 Appendix C-9 Section 7.0
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	Part 4 Appendix C-9 Section 8.0
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	Part 4 Appendix C-9 Section 8.0
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	Part 4 Appendix C-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix C-9 Section 9.0
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	Part 4 Appendix C-9 Section 4.0
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	Part 4 Appendix C-9 Section 11.0
Section 8.14	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	Part 4 Appendix C-9 Section 11.0
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
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	Part 2 Chapter 3 Section 8
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	Part 2 Chapter 3 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 3 Section 9 Part 4 Appendix C-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9 Part 4 Appendix C-2 Public Outreach
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 3 Section 9
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	Part 2 Chapter 3 Section 9

C-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

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Nataly Alvizar
CITY OF LOMA LINDA
25541 BARTON ROAD
LOMA LINDA, CA 92354

SBS# 3480080

NOTICE PUBLIC HEARING

COPY OF NOTICE

Notice Type: HRG NOTICE OF HEARING

Ad Description
IRUWMP WSCP.NOH

To the right is a copy of the notice you sent to us for publication in the SAN BERNARDINO COUNTY SUN. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

06/15/2021 , 06/22/2021

The charge(s) for this order is as follows. An invoice will be sent after the last date of publication. If you prepaid this order in full, you will not receive an invoice.

Publication	\$501.60
Total	\$501.60

PLEASE TAKE NOTICE that the City Council of the City of Loma Linda will hold a PUBLIC HEARING in the City Council Chamber, 25541 Barton Road, Loma Linda, California, on **Tuesday, the 29th of June, 2021 at 7:00 p.m.**, or as soon thereafter as possible, at which time oral and written presentations will be received pertaining to Council Bill #R-2021-18 - Adopting the 2020 Integrated Regional Urban Water Management Plan (IRUWMP) and Council Bill #R-2021-19 - Adopting the Water Shortage Contingency Plan (WSCP). Following the public hearing, the Loma Linda City Council may adopt the Draft 2020 IRUWMP and Draft WSCP with recommended modifications, if any, as a result of public input.

The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents the City of Loma Linda's plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages.

The Draft WSCP documents the City of Loma Linda's plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies.

A copy of the Draft 2020 IRUWMP and Draft WSCP are available for public review beginning in May 2021 and can be downloaded at City of Loma Linda website or viewed at the City of Loma Linda office at 25541 Barton Road, Loma Linda, CA 92354. Please contact the City of Loma Linda if you require special accommodations.

Please provide written comments on the Draft 2020 IRUWMP documents to the City of Loma Linda, Barbara Nicholson at bnicholson@lomalinda-ca.gov prior to 5:00 p.m. on June 29, 2021.

City Council Chambers will be open to the public and participation will also be available via Zoom's virtual meeting platform for the purpose of public comment and via the City's YOUTUBE channel for viewing only. To comment via Zoom's virtual

! A000005742864!

meeting go to
<https://us02web.zoom.us/j/8616208259>
or call 1(408) 638-0968 - **Input**
Meeting ID: 861 620 8259. No
participant ID is necessary. Dial the
key as prompted.

The meeting may also be viewed via
live streaming through the City's
YouTube channel at
<https://www.youtube.com/channel/UCSOe1mP-11w9W8ZeX3CUS0Q>

Barbara Nicholson, City Clerk
Dated: June 7, 2021

6/15, 6/22/21

SBS-3480080#

C-3: Resolutions

RESOLUTION NO. 3106

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LOMA LINDA ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN

WHEREAS, the City of Loma Linda and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the City of Loma Linda participated in the development of the 2007 and 2015 IRWMPs and adopted the 2007 and 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and

WHEREAS, CITY OF LOMA LINDA meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP (RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the UWMP Act; and

WHEREAS, the City of Loma Linda participated in the 2010 and 2015 RUWMP; and

WHEREAS, both the IRWMP and RUWMP are both due to be updated; and

WHEREAS, the City of Loma Linda and nineteen other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 – Individual Agency Supporting Information; and

WHEREAS, as a participant in the 2020 IRUWMP, the City of Loma Linda has prepared those portions of the IRUWMP applicable to the City of Loma Linda to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include Part 1, Part 2 Chapter 3: City of Loma Linda UWMP, Part 3, and Part 4 Appendix C: City of Loma Linda Supporting Information; and

WHEREAS, in accordance with applicable legal requirements, the City of Loma Linda has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and

WHEREAS, in accordance with the UWMP Act, The CITY OF LOMA LINDA has prepared the 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding the CITY OF LOMA LINDA's adoption of Part 1, Part 2 Chapter 3, Part 3 and Part 4 Appendix C of the 2020 IRUWMP was published within the jurisdiction of the CITY OF LOMA LINDA on June 15, 2021 and June 22, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on JUNE 29, 2021 at 7:00 p.m., or soon thereafter, in the Council Chambers of the offices of the CITY OF LOMA LINDA, 25541 Barton Road, Loma Linda, CA 92354 in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, The CITY OF LOMA LINDA, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the CITY OF LOMA LINDA's service area with regard to the preparation of the Plan, encouraged community input regarding the 2020 IRUWMP; and

WHEREAS, the CITY COUNCIL has reviewed and considered the purposes and requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and

WHEREAS, the CITY COUNCIL desires to adopt Part 1, Part 2 Chapter 3, Part 3 and Part 4, Appendix C of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF LOMA LINDA:

1. Part 1, Part 2 Chapter 3, Part 3 and Part 4 Appendix C of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the CITY COUNCIL as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the CITY COUNCIL;
2. The City Manager is hereby authorized and directed to include a copy of this Resolution in the CITY OF LOMA LINDA's 2020 IRUWMP;
3. The City Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the City of Loma Linda portions of the 2020 IRUWMP to DWR no later than July 1, 2021;
4. The City Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which the City of Loma Linda provides water supplies no later than thirty (30) days after this adoption date;
5. The City Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at The City of Loma Linda offices during normal business hours and on City of Loma Linda website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;

6. The City Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which The CITY OF LOMA LINDA provides water supplies no later than sixty (60) days after submitting a copy to DWR;

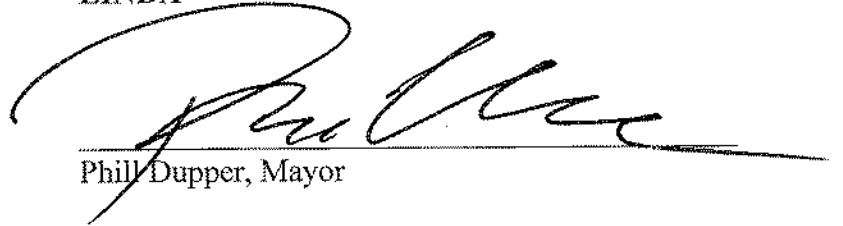
7. The City Manager is hereby authorized and directed to implement the 2020 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the CITY COUNCIL regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

8. This Resolution shall be effective immediately upon adoption.

9. The City Clerk shall certify to the adoption of this Resolution.


APPROVED AND ADOPTED this 29th day of June 2021.

**CITY COUNCIL OF THE CITY OF LOMA
LINDA**



Phil Dupper, Mayor

ATTEST:




Barbara Nicholson, City Clerk

STATE OF CALIFORNIA)
COUNTY OF SAN BERNARDINO) ss.
CITY OF LOMA LINDA)

I, Barbara Nicholson, City Clerk of the City of Loma Linda, hereby certify that the foregoing resolution was duly adopted by the City Council at its regular meeting held on the 29th day of June, 2021, and that it was so adopted by the following vote:

AYES: Dupper, Dailey, Lenart, Jindal
NOES: None
ABSENT: Rigsby
ABSTAIN: None


Barbara Nicholson
City Clerk

C-4: Agreements

Not used. The City of Loma Linda does not have any relevant agreements referenced in their UWMP. See Part 3 Appendix B for regional agreements that apply to the City of Loma Linda.

C-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information			
Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	Loma Linda City Of	4130796134	3/16/2021 6:51:34 PM

Boundary Information		
Census Year	Boundary Filename	Internal Boundary ID
1990	Loma Linda City.kml	680
2000	Loma Linda City.kml	680
2010	Loma Linda City.kml	680
1990	Loma Linda City.kml	680
2000	Loma Linda City.kml	680
2010	Loma Linda City.kml	680
1990	Loma Linda City.kml	680
2000	Loma Linda City.kml	680
2010	Loma Linda City.kml	680
1990	Loma Linda City.kml	680
2000	Loma Linda City.kml	680
2010	Loma Linda City.kml	680

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period:

Year beginning baseline period range:

Year ending baseline period range¹: 2008

5-year baseline period

Year beginning baseline period range:

Year ending baseline period range²: 2008

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons-Per-SF Connection and Persons-Per-MF/GQ Connection

Year	Census Block Group Level	Census Block Level			# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection
	% Population in SF Housing	Service Area Population	Population in SF Housing (calculated)	Population in MF/GQ Housing (calculated)				
1990	58.42%	18,992	11,095	7,897	<input type="text"/>	<input type="text"/>	3.01	25.52
1991	-	-	-	-	-	-	3.01	25.52
1992	-	-	-	-	-	-	3.01	25.52
1993	-	-	-	-	-	-	3.01	25.52
1994	-	-	-	-	-	-	3.01	25.52
1995	-	-	-	-	-	-	3.01	25.52
1996	-	-	-	-	-	-	3.01	25.52
1997	-	-	-	-	-	-	3.01	25.52
1998	-	-	-	-	-	-	3.01	25.52
1999	-	-	-	-	-	-	3.01	25.52
2000	57.34%	19,188	11,003	8,185	<input type="text"/>	<input type="text"/>	3.01	25.52
2001	-	-	-	-	-	-	3.01	25.52
2002	-	-	-	-	-	-	3.01	25.52
2003	-	-	-	-	-	-	3.01	25.52
2004	-	-	-	-	-	-	3.01	25.52
2005	-	-	-	-	-	-	3.01	25.52
2006	-	-	-	-	-	-	3.01	25.52
2007	-	-	-	-	-	-	3.01	25.52
2008	-	-	-	-	-	-	3.01	25.52
2009	-	-	-	-	-	-	3.01	25.52
2010	57.76%	23,379	13,503	9,876	<input type="text" value="4480"/>	<input type="text" value="387"/>	3.01	25.52
2011	-	-	-	-	-	-	3.01	25.52
2012	-	-	-	-	-	-	3.01	25.52
2013	-	-	-	-	-	-	3.01	25.52
2014	-	-	-	-	-	-	3.01	25.52
2015	-	-	-	-	-	-	3.01	25.52
2020	-	-	-	-	-	-	3.01 *	25.52 *

Population Using Persons-Per-SF Connection and Persons-Per-MF/GQ Connection

Year		# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection	SF Population	MF/GQ Population	Total Population
10 to 15 Year Baseline Population Calculations								
Year 1	1999	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 2	2000	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 3	2001	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 4	2002	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 5	2003	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 6	2004	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 7	2005	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 8	2006	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 9	2007	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 10	2008	<input type="text"/>	<input type="text"/>	3.01	25.52			
5 Year Baseline Population Calculations								
Year 1	2004	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 2	2005	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 3	2006	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 4	2007	<input type="text"/>	<input type="text"/>	3.01	25.52			
Year 5	2008	<input type="text"/>	<input type="text"/>	3.01	25.52			
2020 Compliance Year Population Calculations								
2020		<input type="text" value="4794"/>	<input type="text" value="387"/>	3.01 *	25.52 *	14,449	9,876	24,325

Hide Print Confirmation

QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELO QUESTIONS / ISSUES? CONTACT THE MWELO HELP DESK

C-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610013	LOMA LINDA, CITY OF	5,725	5,192
Total:		5,725	5,192

2-2 | Public Water Systems

STATUS: Published

NOTES: -

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS:

NOTES: -

--

Wholesale Water Supplier Name

San Bernardino Valley Municipal Water District
--

--

3-1R | Current & Projected Population

STATUS:

NOTES:

Population Served	2020	2025	2030	2035	2040	2045
Total	24,325	25,495	26,300	27,130	27,949	28,792
Total	24,325	25,495	26,300	27,130	27,949	28,792

4-1R | Actual Demands for Water

STATUS:

NOTES: -

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Single Family Residential	Drinking Water	2,406
Multi-Family	Multi-Family	Drinking Water	829
Commercial	Commercial/Institutional	Drinking Water	603
Landscape	Landscape Irrigation	Drinking Water	918
Other	Other	Drinking Water	-
Losses	Nonrevenue	Drinking Water	436
Total:			5,192

4-2R | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Single Family Residential	2,557	2,633	2,708	2,781	2,854
Multi-Family	Multi-Family	855	881	907	933	958
Commercial	Commercial/Institutional	622	641	660	678	696
Landscape	Landscape Irrigation	947	976	1,005	1,033	1,060
Other	Other	-	-	-	-	-
Losses	Nonrevenue	647	667	687	705	724
Total:		5,628	5,798	5,968	6,130	6,292

4-3R | Total Gross Water Use

STATUS: Published

NOTES: -

	2020	2020	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	5,192	5,628	5,798	5,968	6,130	6,292
Recycled Water Demand* From Table 6-4R	-	-	-	-	-	-
Total Water Use:	5,192	5,628	5,798	5,968	6,130	6,292

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES: -

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	173
1	2017	674
1	2018	517
1	2019	538
1	2020	436 (Estimate)

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES: -

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS:

NOTES: -

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	1999	2008	242	194
5 Year	2004	2008	244	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES: -

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
191	0	0	0	0	0	0	Yes

*All values are in Gallons per Capita per Day (GPCD)

6-1R | Groundwater Volume Pumped

STATUS:

NOTES:

Select One						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Bunker Hill	4,712	5,060	5,161	4,728	5,191
Total:		4,712	5,060	5,161	4,728	5,191
Groundwater from the Bunker Hill Basin that is produced by San Bernardino Municipal Water Department and delivered to Lon						

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
City of Loma Linda	Metered	2556 (AFY)	City of San Bernardino	San Bernardino Water Reclamation Plant (WRP)	No	No
Total:		-				

6-3R | Wastewater Treatment & Discharge Within Service Area in 2020

STATUS:

NOTES:

No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Plant Treats Wastewater Generated Outside the Service Area	Treatment Level	2020 Volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Total:							-	-	-	-	-

6-4R | Recycled Water Direct Beneficial Uses Within Service Area

STATUS:

NOTES:

Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table.	
Name of Supplier Producing (Treating) the Recycled Water:	
Name of Supplier Operating the Recycled Water Distribution System:	
Supplemental Volume of Water Added in 2020:	
Source of 2020 Supplemental Water:	
*IPR - Indirect Potable Reuse	

6-5R | 2015 Recycled Water Use Projection Compared to 2020 Actual

STATUS: Published

NOTES: -

Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table.

6-6R | Methods to Expand Future Recycled Water Use

STATUS: Published

NOTES: Part 2 Chapter 3 Section 4.5.1

The supplier does not plan to expand recycled water use in the future. The supplier will not complete the table below but will provide narrative explanation.

Name of Action	Description	Planned Implementation Year	Expected Increase of Recycled Water Use
Total:			-

6-7R | Expected Future Water Supply Projects or Programs

STATUS:

NOTES: -

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table.

6-8R | Actual Water Supplies

STATUS:

NOTES: -

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	5,191	Drinking Water	
Purchased or Imported Water	City of San Bernardino	1	Drinking Water	
Total:		5,192		-
Deliveries from the San Bernardino Municipal Water Department are from monthly operation tests of Loma Linda's emergency interties.				

6-8DS | Source Water Desalination

STATUS:

NOTES:

Neither groundwater nor surface water are reduced in salinity prior to distribution. The supplier will not complete the table.

Plant Name or Well ID	Plant Capacity	Intake Type	Source Water Type	Influent TDS	Brine Discharge	Volume of Water Desalinated in AFY				
						2016	2017	2018	2019	2020
Total:						-	-	-	-	-

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	6,472		6,668		6,863		7,049		7,236	
	Total:	6,472	-	6,668	-	6,863	-	7,049	-	7,236	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	6,472	6,668	6,863	7,049	7,236
Demand Totals From Table 4-3R	5,628	5,798	5,968	6,130	6,292
Difference:	844	870	895	919	944

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	7,120	7,334	7,549	7,754	7,959
Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:	929	957	985	1,011	1,038

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES:

		2025	2030	2035	2040	2045
First Year	Supply Totals	7,120	7,334	7,549	7,754	7,959
	Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:		929	957	985	1,011	1,038
Second Year	Supply Totals	7,120	7,334	7,549	7,754	7,959
	Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:		929	957	985	1,011	1,038
Third Year	Supply Totals	7,120	7,334	7,549	7,754	7,959
	Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:		929	957	985	1,011	1,038
Fourth Year	Supply Totals	7,120	7,334	7,549	7,754	7,959
	Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:		929	957	985	1,011	1,038
Fifth Year	Supply Totals	7,120	7,334	7,549	7,754	7,959
	Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:		929	957	985	1,011	1,038
Sixth Year	Supply Totals	7,120	7,334	7,549	7,754	7,959
	Demand Totals	6,191	6,378	6,564	6,743	6,921
Difference:		929	957	985	1,011	1,038

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	5,807
	Total Supplies	6,678
	Surplus/Shortfall without WSCP Action	871
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	871
	Resulting Percent Use Reduction from WSCP Action	0%
2022	Gross Water Use	5,903
	Total Supplies	6,788
	Surplus/Shortfall without WSCP Action	885
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	885
	Resulting Percent Use Reduction from WSCP Action	0%
2023	Gross Water Use	5,999
	Total Supplies	6,899
	Surplus/Shortfall without WSCP Action	900
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	900
	Resulting Percent Use Reduction from WSCP Action	0%
2024	Gross Water Use	6,095
	Total Supplies	7,009
	Surplus/Shortfall without WSCP Action	914
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	914
	Resulting Percent Use Reduction from WSCP Action	0%
2025	Gross Water Use	6,191
	Total Supplies	7,120
	Surplus/Shortfall without WSCP Action	929
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	929
	Resulting Percent Use Reduction from WSCP Action	0%

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES: -

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Normal Conditions (Loma Linda Stage 1) - Normal conditions shall be in effect when Loma Linda is able to meet all the water demands of its customers in the immediate future. During normal conditions, all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to the amount necessary for ordinary domestic and commercial purposes.
2	Up to 20%	Threatened Water Supply Shortage (Loma Linda Stage 2) - In the event of a threatened water supply shortage which could affect Loma Linda's ability to provide water for ordinary domestic and commercial uses, the City Council shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to Loma Linda. The City Council may then, by resolution, declare a water shortage condition to prevail, and the selected shortage response actions shall be in effect.
3	Up to 30%	Threatened Water Supply Shortage (Loma Linda Stage 2) - In the event of a threatened water supply shortage which could affect Loma Linda's ability to provide water for ordinary domestic and commercial uses, the City Council shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to Loma Linda. The City Council may then, by resolution, declare a water shortage condition to prevail, and the selected shortage response actions shall be in effect.
4	Up to 40%	Water Shortage Emergency (Loma Linda Stage 3) - In the event of a water shortage emergency in which Loma Linda may be prevented from meeting the water demands of its customers, the City Council shall, if possible given the time and circumstances, immediately hold a public hearing at which customers of Loma Linda shall have the opportunity to protest and to present their respective needs to the City Council. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The Director of Public Services is empowered to declare a water shortage emergency, subject to the ratification of the City Council within seventy-two hours of such a declaration.
5	Up to 50%	Water Shortage Emergency (Loma Linda Stage 3) - In the event of a water shortage emergency in which Loma Linda may be prevented from meeting the water demands of its customers, the City Council shall, if possible given the time and circumstances, immediately hold a public hearing at which customers of Loma Linda shall have the opportunity to protest and to present their respective needs to the City Council. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The Director of Public Services is empowered to declare a water shortage emergency, subject to the ratification of the City Council within seventy-two hours of such a declaration.
6	>50%	Water Shortage Emergency (Loma Linda Stage 3) - In the event of a water shortage emergency in which Loma Linda may be prevented from meeting the water demands of its customers, the City Council shall, if possible given the time and circumstances, immediately hold a public hearing at which customers of Loma Linda shall have the opportunity to protest and to present their respective needs to the City Council. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The Director of Public Services is empowered to declare a water shortage emergency, subject to the ratification of the City Council within seventy-two hours of such a declaration.

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

8-2 | Demand Reduction Actions

STATUS:

NOTES: -

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
All	Expand Public Information Campaign	0-20%		No
2	Other	0-20%	Commercial and industrial facility education on water use.	No
2	CII - Restaurants may only serve water upon request	0-1%	Restaurants are requested not to provide drinking water to patrons except by request.	Yes
2	Landscape - Limit landscape irrigation to specific days	5-10%	Upon notice and public hearing, Loma Linda may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. The irrigation of exterior vegetation at other than these times shall be considered to be a waste of water.	Yes
2	Landscape - Limit landscape irrigation to specific times	5-10%	Public and private parks, golf courses, swimming pools and school grounds which use water provided by Loma Linda shall use water for irrigation and pool filling between the hours of 6 P.M. and 6 A.M.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Persons receiving water from the Loma Linda who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the director of public services, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.	Yes

2	Landscape - Other landscape restriction or prohibition	0-5%	Commercial and industrial facilities shall, upon request of the director of public services, provide Loma Linda with a plan to conserve water at their facilities. Loma Linda will provide these facilities with information regarding the average monthly water use by the facility for the last two year period. The facility will be expected to provide Loma Linda with a plan to conserve or reduce the amount of water used by that percentage deemed by the City Council to be necessary under the circumstances. After review and approval by the director of public services, the water conservation plan shall be considered subject to inspection and enforcement by Loma Linda.	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	No customer of the Loma Linda or other person acting on behalf of or under the direction of a customer shall cause or permit the use of water for irrigation of landscaping or other outdoor vegetation, plantings, lawns or other growth, to exceed the amount required to provide reasonable or excessive waste of water from such irrigation activities or from watering devices or systems. The free flow of water away from an irrigated site shall be presumptively considered excessive irrigation and waste as defined.	Yes
2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	No water provided by Loma Linda shall be used for the purposes of Wash down of impervious areas without specific written authorization of the director of public services. Any water used on all premises that is allowed to escape the premises and run off into gutters or storm drains shall be considered a waste of water.	Yes
2	Other - Require automatic shut of hoses	0-1%	The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or at a commercial facility designated and so designated on Loma Linda's billing records.	Yes
2	Pools and Spas - Require covers for pools and spas	0-1%	All residential, public and recreational swimming pools, of all sizes, shall use evaporation resistant covers and shall recirculate water. Any swimming pool which does not have a cover installed during periods of non-use shall be considered a waste of water.	Yes
3	CII - Restaurants may only serve water upon request	0-1%	Restaurants shall not serve drinking water to patrons except by request.	Yes
3	Landscape - Prohibit all landscape irrigation	10-30%	Watering of parks, school grounds, golf courses, lawn watering, and landscape irrigation is prohibited.	Yes
3	Landscape - Prohibit certain types of landscape irrigation	10-30%	Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.	Yes
3	Other - Prohibit use of potable water for construction and dust control	0-1%	No new construction meter permits shall be issued by Loma Linda. All existing construction meters shall be removed and/or locked.	Yes
3	Other - Prohibit use of potable water for washing hard surfaces	0-1%	Washing down of driveways, parking lots or other impervious surfaces is prohibited.	Yes

3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water is prohibited.	Yes
3	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Filling or adding water to wading pools, ornamental ponds, fountains and artificial lakes are prohibited.	Yes
3	Other water feature or swimming pool restriction	0-1%	Filling or adding water to swimming pools and spas is prohibited.	Yes

8-3R | Supply Augmentation & Other Actions

STATUS: Published

NOTES: -

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
3	Other purchases	0-100%	Emergency connection with the City of Redlands
3	Other purchases	0-100%	Emergency supply connection with the City of San Bernardino

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of Loma Linda	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	City of Loma Linda		Reporting Period Start Date	1/1/2020
Water Delivery Product	Retail Potable Deliveries		Reporting Period End Date	12/30/2020
-	Urban Water Supplier Operational Control			
-	Sum of all Water Management Process		Non-Consequential Hydropower	
-	Total Utility		Hydropower	Net Utility
Volume of Water Entering Process (AF)	5191		0	5191
Energy Consumed (kWh)	5833612		0	5833612
Energy Intensity (kWh/AF)	1123.8		0.0	1123.8
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy		0.0 kWh
Data Quality Narrative	Energy was determined through meter records, however some data is not recorded for some of Loma Linda's reservoirs.			
Water Supply Narrative	The City of Loma Linda's water supply is comprised entirely of groundwater extracted from the SBBA Bunker Hill Basin.			

C-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	6,030	Acre Feet (AF)
	2008 total volume of delivered recycled water	0	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	0	Percent
	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	2004	
	Year ending baseline period range ⁴	2008	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES: -

Method for Population Estimates	
No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
Yes	3. DWR Population Tool
No	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES: -

Year		Population
10 to 15 Year Baseline Population		
Year 1	1999	19,168
Year 2	2000	19,188
Year 3	2001	19,571
Year 4	2002	19,961
Year 5	2003	20,360
Year 6	2004	20,766
Year 7	2005	21,180
Year 8	2006	21,603
Year 9	2007	22,034
Year 10	2008	22,473
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2004	20,766
Year 2	2005	21,180
Year 3	2006	21,603
Year 4	2007	22,034
Year 5	2008	22,473
2020 Compliance Year Population		
2020		24,235

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	1,999	4,772			0		-	4,772
Year 2	2,000	5,478			0		-	5,478
Year 3	2,001	5,392			0		-	5,392
Year 4	2,002	5,563			0		-	5,563
Year 5	2,003	5,322			0		-	5,322
Year 6	2,004	5,675			0		-	5,675
Year 7	2,005	5,598			0		-	5,598
Year 8	2,006	5,847			0		-	5,847
Year 9	2,007	6,391			0		-	6,391
Year 10	2,008	6,030			0		-	6,030
Year 11	0	0			0		-	0
Year 12	0	0			0		-	0
Year 13	0	0			0		-	0
Year 14	0	0			0		-	0
Year 15	0	0			0		-	0
10 - 15 year baseline average gross water use:								5,607
5 Year Baseline - Gross Water Use								
Year 1	2,004	5,675			0		-	5,675
Year 2	2,005	5,598			0		-	5,598
Year 3	2,006	5,847			0		-	5,847
Year 4	2,007	6,392			0		-	6,392
Year 5	2,008	6,030			0		-	6,030
5 year baseline average gross water use:								5,908
2020 Compliance Year - Gross Water Use								
2020		5,191			0		-	5,191

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source			
Name of Source:		SBBA	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,999	3,953	3,953
Year 2	2,000	4,879	4,879
Year 3	2,001	4,707	4,707
Year 4	2,002	5,411	5,411
Year 5	2,003	5,322	5,322
Year 6	2,004	5,674	5,674
Year 7	2,005	5,598	5,598
Year 8	2,006	4,747	4,747
Year 9	2,007	4,812	4,812
Year 10	2,008	4,823	4,823
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,004	5,674	5,674
Year 2	2,005	5,598	5,598
Year 3	2,006	4,747	4,747
Year 4	2,007	4,812	4,812
Year 5	2,008	4,823	4,823
2020 Compliance Year - Water into Distribution System			
2020		5,191	5,191

SB X7-4A | Volume Entering the Distribution System(s)

A purchased or imported source.				
Name of Source:		SWP		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,999	819		819
Year 2	2,000	599		599
Year 3	2,001	685		685
Year 4	2,002	152		152
Year 5	2,003	0		0
Year 6	2,004	1		1
Year 7	2,005	0		0
Year 8	2,006	1,100		1,100
Year 9	2,007	1,579		1,579
Year 10	2,008	1,207		1,207
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,004	1		1
Year 2	2,005	0		0
Year 3	2,006	1,100		1,100
Year 4	2,007	1,580		1,580
Year 5	2,008	1,207		1,207
2020 Compliance Year - Water into Distribution System				
2020		0		0

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3		Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	19,168	4,772	222
Year 2	2000	19,188	5,478	255
Year 3	2001	19,571	5,392	246
Year 4	2002	19,961	5,563	249
Year 5	2003	20,360	5,322	233
Year 6	2004	20,766	5,675	244
Year 7	2005	21,180	5,598	236
Year 8	2006	21,603	5,847	242
Year 9	2007	22,034	6,391	259
Year 10	2008	22,473	6,030	240
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:				243
5 Year Baseline GPCD				
Year 1	2004	20,766	5,675	244
Year 2	2005	21,180	5,598	236
Year 3	2006	21,603	5,847	242
Year 4	2007	22,034	6,392	259
Year 5	2008	22,473	6,030	240
5 Year Average Baseline GPCD:				244
2020 Compliance Year GPCD				
2020		24,235	5,191	191

SB X7-6 | Gallons per Capita per Day

STATUS: Published

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	243
5 Year Baseline GPCD	244
2020 Compliance Year GPCD	191

SB X7-7 | 2020 Target Method

STATUS:

NOTES: -

Select Only One	
Yes	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
No	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
243	194

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES:

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
194	243	218

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
191	194				0	191	191	YES

C-8: AWWA Water Audits



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 Loma Linda Water Dept (3610013)**
 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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	+ ?	5	4,711.780	acre-ft/yr
Water imported:	+ ?	3	1.160	acre-ft/yr
Water exported:	+ ?	3	5.156	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	
+ ?	8	272.019 acre-ft/yr
+ ?	3	acre-ft/yr
+ ?	2	acre-ft/yr

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

WATER SUPPLIED: 4,435.765 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	5	4,251.990	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled unmetered:	+ ?	5	11.089	acre-ft/yr

AUTHORIZED CONSUMPTION: 4,263.079 acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt: Value: 11.089 acre-ft/yr

Use buttons to select percentage of water supplied
OR value

Pcnt: 0.25% Value: acre-ft/yr

1.50% Value: acre-ft/yr

0.25% Value: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

172.686 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **11.089** acre-ft/yr

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

Customer metering inaccuracies: + ? 2 **64.751** acre-ft/yr

Systematic data handling errors: + ? **10.630** acre-ft/yr

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

Apparent Losses: 86.470 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **86.216** acre-ft/yr

WATER LOSSES: 172.686 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 183.776 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	7	77.2	miles
Number of active AND inactive service connections:	+ ?	7	5,423	
Service connection density:	?		70	conn./mile main

Are customer meters typically located at the curbside 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 **94.0** psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$5,481,500	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	8	\$1.67	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$642.26	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 56 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 definition
 Click to add a comment

Water Audit Report for: **City of Loma Linda (3610013)**
 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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/> <input type="button" value="?"/> 8	5,060.000	acre-ft/yr
Water imported:	<input type="button" value="+"/> <input type="button" value="?"/> 3	1.000	acre-ft/yr
Water exported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

<input type="button" value="+"/> <input type="button" value="?"/> 7	0.00%	<input type="radio"/> <input type="radio"/>	Value: <input type="text"/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="?"/> 2	0.00%	<input type="radio"/> <input type="radio"/>	Value: <input type="text"/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="?"/> 1		<input type="radio"/> <input type="radio"/>	Value: <input type="text"/>	acre-ft/yr

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

WATER SUPPLIED: **5,061.000** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/> <input type="button" value="?"/> 7	4,323.579	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> 5	63.263	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **4,386.842** acre-ft/yr

Click here: for help using option buttons below

Pcnt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt: Value: acre-ft/yr

 Value: acre-ft/yr

 Value: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

674.159 acre-ft/yr

Apparent Losses

Unauthorized consumption: 5 **12.653** acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/> <input type="button" value="?"/> 5	43.673	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/> <input type="button" value="?"/> 5	10.809	acre-ft/yr

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

Apparent Losses: **67.134** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **607.025** acre-ft/yr

WATER LOSSES: **674.159** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **737.421** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/> <input type="button" value="?"/> 7	77.5	miles
Number of active AND inactive service connections:	<input type="button" value="+"/> <input type="button" value="?"/> 7	5,447	
Service connection density:	<input type="button" value="?"/> 7	70	conn./mile main

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

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

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

Average operating pressure: 7 57.0 psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/> <input type="button" value="?"/> 10	\$6,665,443	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 7	\$1.81	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 7		\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Billed metered



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 Loma (3610013)**
 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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->				
Volume from own sources:	+	?	7	5,297.940 acre-ft/yr
Water imported:	+	?	3	1.350 acre-ft/yr
Water exported:	+	?	n/a	0.000 acre-ft/yr

Master Meter and Supply Error Adjustments

+	?	7	Pcnt:	Value:	
+	?	1	Pcnt:	Value:	
+	?	?	Pcnt:	Value:	

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

WATER SUPPLIED: 5,299.290 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	7	4,716.170 acre-ft/yr
Billed unmetered:	+	?	n/a	acre-ft/yr
Unbilled metered:	+	?	n/a	acre-ft/yr
Unbilled unmetered:	+	?	5	66.241 acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 4,782.411 acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:
1.25%	acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

Pcnt:	Value:
0.25%	acre-ft/yr

1.00%	acre-ft/yr
0.25%	acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

516.879 acre-ft/yr

Apparent Losses

Unauthorized consumption: **13.248 acre-ft/yr**

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

Customer metering inaccuracies:	+	?	5	47.638 acre-ft/yr
Systematic data handling errors:	+	?	5	11.790 acre-ft/yr

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

Apparent Losses: 72.677 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **444.202 acre-ft/yr**

WATER LOSSES: 516.879 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 583.120 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	7	77.5 miles
Number of active AND inactive service connections:	+	?	7	5,436
Service connection density:	?			70 conn./mile main

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

Average length of customer service line: **57.0** (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: **57.0** psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$7,649,935	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	7	\$1.89	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	7		\$/acre-ft [] 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: Billed metered



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 Loma Linda (3610013)**
 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: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	+ ?	8	4,772.860	acre-ft/yr
Water imported:	+ ?	5	1.120	acre-ft/yr
Water exported:	+ ?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

	Pcnt:	Value:	
+ ?	3	<input type="radio"/>	acre-ft/yr
+ ?	1	<input type="radio"/>	acre-ft/yr
+ ?		<input type="radio"/>	acre-ft/yr

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

WATER SUPPLIED: 4,773.980 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	8	4,176.590	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled unmetered:	+ ?	6	59.675	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 4,236.265 acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt: Value:

Use buttons to select percentage of water supplied
OR
value

Pcnt: Value:

WATER LOSSES (Water Supplied - Authorized Consumption)

537.715 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **11.935** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	6	0.000	acre-ft/yr
Systematic data handling errors:	+ ?	7	10.441	acre-ft/yr

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

Apparent Losses: 22.376 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **515.339** acre-ft/yr

WATER LOSSES: 537.715 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 597.390 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	7	118.4	miles
Number of <u>active AND inactive</u> service connections:	+ ?	7	5,592	
Service connection density:	?		47	conn./mile main

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

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

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

Average operating pressure: + ? 7 57.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$7,203,547	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	8	\$2.27	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	7	\$641.31	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 75 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

C-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact The City of Loma Linda to obtain the most current version of the WSCP.

City of Loma Linda Water Shortage Contingency Plan

JUNE 2021

City of Loma Linda





CITY OF LOMA LINDA

Water Shortage Contingency Plan

City of Loma Linda

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

City of Loma Linda

This Water Shortage Contingency Plan is a strategic plan that the City of Loma Linda (Loma Linda) uses to prepare for and respond to water shortages.

A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that Loma Linda will use to forecast and prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to forecast and respond to actual conditions. This level of detailed planning and preparation provides accountability and predictability to help Loma Linda maintain reliable supplies and reduce the impacts of any supply shortages.

This WSCP was prepared in conjunction with Loma Linda's 2020 Urban Water Management Plan (UWMP), which is included in the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes Loma Linda's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes water shortage stages to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant Loma Linda the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, Loma Linda completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. Loma Linda is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, Loma Linda implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, Loma Linda's water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, Loma Linda will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, Loma Linda must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to Loma Linda at the time of analysis and can be updated or revised at any time if circumstances change.

Loma Linda will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **Utilities Superintendent**
- **Finance**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	WSCP Team
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	The BTAC evaluates groundwater in storage each year. The Bunker Hill basin is sustainably managed to provide storage for use in dry years. In the unlikely event that local supplies are reduced, Loma Linda will coordinate with the BTAC to identify anticipated supplies.	Utilities Superintendent
JAN - FEB	Consider potential constraints that may impact supply delivery	Identify any known regional or Loma Linda infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity. Identify any facilities out of service due to water quality problems, equipment failure, etc. that may impact normal water deliveries. Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs.	Utilities Superintendent
FEB	Convene WSCP Team to conduct Annual Assessment	Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response stage and actions are recommended to reduce/eliminate the shortage. Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response actions are needed to comply with the State mandate.	WSCP Team

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JUNE	City Council	If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the Loma Linda City Council, including the recommended shortage stage and response actions. The City Council may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.	City Manager & Council
ON-GOING	Implement WSCP actions, if needed	Relevant members of Loma Linda staff will implement shortage response actions associated with the declared water shortage stage	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

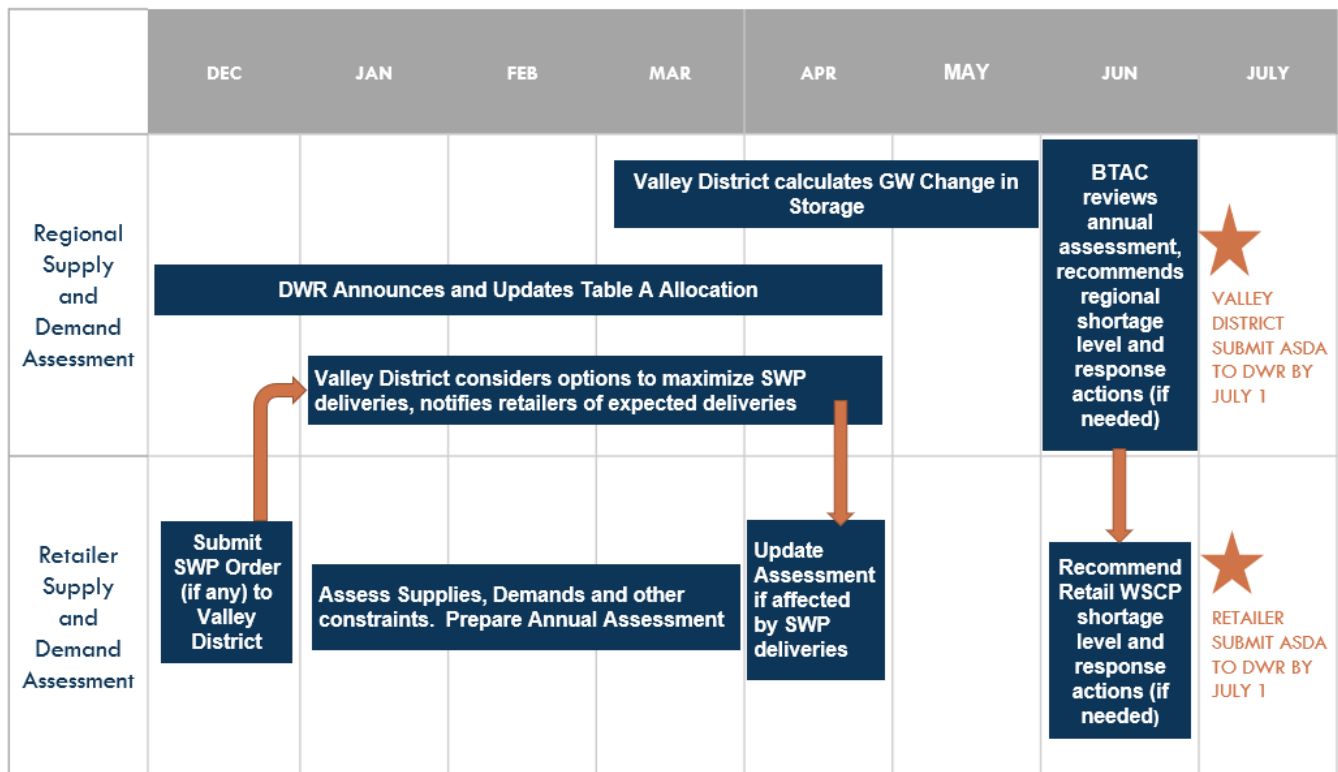


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

With the exception of a catastrophic failure of infrastructure, Loma Linda does not foresee imposing a water shortage stage except under the State's direction, as occurred in 2014. If a potential water shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that Loma Linda may implement.

Loma Linda uses three (3) shortage stages to identify and respond to water shortage emergencies. At a minimum, Loma Linda encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I: Normal Conditions - Voluntary Conservation Measures

Normal conditions shall be in effect when Loma Linda is able to meet all the water demands of its customers in the immediate future. During normal conditions, all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to the amount necessary for ordinary domestic and commercial purposes.

Stage II: Threatened Water Supply Shortage

In the event of a threatened water supply shortage which could affect Loma Linda's ability to provide water for ordinary domestic and commercial uses, the City Council shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to Loma Linda. The City Council may then, by resolution, declare a water shortage condition to prevail, and the selected shortage response actions shall be in effect.

Stage III: Water Shortage Emergency - Mandatory Conservation Measures

In the event of a water shortage emergency in which Loma Linda may be prevented from meeting the water demands of its customers, the City Council shall, if possible given the time and circumstances, immediately hold a public hearing at which customers of Loma Linda shall have the opportunity to protest and to present their respective needs to the City Council. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The Director of Public Services is empowered to declare a water shortage emergency, subject to the ratification of the City Council within seventy-two hours of such a declaration.

The CWC outlines six standard water shortage stages that correspond to a shortage compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. Loma Linda is maintaining the current three shortage stages for this WSCP. A crosswalk defines how Loma Linda's current water shortage stages will align with the DWR's standardized 6 stages of shortage. A visual representation of this alignment is shown in [Figure 2](#).

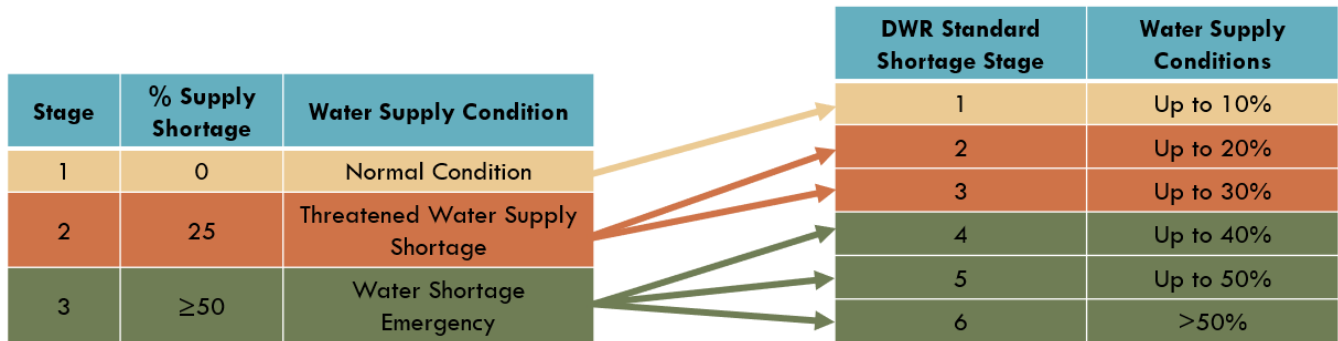


Figure 2. Crosswalk to DWR Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Conditions (Loma Linda Stage 1)
2	Up to 20%	Threatened Water Supply Shortage (Loma Linda Stage 2)
3	Up to 30%	Threatened Water Supply Shortage (Loma Linda Stage 2)
4	Up to 40%	Water Shortage Emergency (Loma Linda Stage 3)
5	Up to 50%	Water Shortage Emergency (Loma Linda Stage 3)
6	>50%	Water Shortage Emergency (Loma Linda Stage 3)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that may be implemented for each stage to minimize social and economic impacts to the community.

In accordance with CWC 10632(b) Loma Linda analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions Loma Linda can take in the event of a water shortage condition. Loma Linda currently maintains interconnections with the City of Redlands and the City of San Bernardino. During water shortage emergencies, Loma Linda may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
3	Other purchases	0-100%	Emergency connection with the City of Redlands
3	Other purchases	0-100%	Emergency supply connection with the City of San Bernardino

4.2 Demand Reduction

In addition to prohibitions on end uses, Loma Linda offers various programs to encourage conservation. Loma Linda has a water rate structure that promotes water efficiency. The reduction goal is to balance supply and demand. [Table 4](#) summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
All	Expand Public Information Campaign	0-20%		No
2	Other	0-20%	Commercial and industrial facility education on water use.	No
2	CII - Restaurants may only serve water upon request	0-1%	Restaurants are requested not to provide drinking water to patrons except by request.	Yes
2	Landscape - Limit landscape irrigation to specific days	5-10%	Upon notice and public hearing, Loma Linda may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. The irrigation of exterior vegetation at other than these times shall be considered to be a waste of water.	Yes
2	Landscape - Limit landscape irrigation to specific times	5-10%	Public and private parks, golf courses, swimming pools and school grounds which use water provided by Loma Linda shall use water for irrigation and pool filling between the hours of 6 P.M. and 6 A.M.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Persons receiving water from Loma Linda who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide,	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the director of public services, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.	
2	Landscape - Other landscape restriction or prohibition	0-5%	Commercial and industrial facilities shall, upon request of the director of public services, provide Loma Linda with a plan to conserve water at their facilities. Loma Linda will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period. The facility will be expected to provide Loma Linda with a plan to conserve or reduce the amount of water used by that percentage deemed by the City Council to be necessary under the circumstances. After review and approval by the director of public services, the water conservation plan shall be considered subject to inspection and enforcement by Loma Linda.	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	No customer of Loma Linda or other person acting on behalf of or under the direction of a customer shall cause or permit the use of water for irrigation of landscaping or other outdoor vegetation, plantings, lawns or other growth, to exceed the amount required to provide reasonable or excessive waste of water from such irrigation activities or from watering devices or systems. The free flow of water away from an irrigated site shall be presumptively considered excessive irrigation and waste as defined.	Yes
2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	No water provided by Loma Linda shall be used for the purposes of Wash down of impervious areas without specific written authorization of the director of public services. Any water used on all premises that is allowed to escape the premises and run off into gutters or storm drains shall be considered a waste of water.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2	Other - Require automatic shut of hoses	0-1%	The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or at a commercial facility designated and so designated on Loma Linda's billing records.	Yes
2	Pools and Spas - Require covers for pools and spas	0-1%	All residential, public and recreational swimming pools, of all sizes, shall use evaporation resistant covers and shall recirculate water. Any swimming pool which does not have a cover installed during periods of non-use shall be considered a waste of water.	Yes
3	CII - Restaurants may only serve water upon request	0-1%	Restaurants shall not serve drinking water to patrons except by request.	Yes
3	Landscape - Prohibit all landscape irrigation	10-30%	Watering of parks, school grounds, golf courses, lawn watering, and landscape irrigation is prohibited.	Yes
3	Landscape - Prohibit certain types of landscape irrigation	10-30%	Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.	Yes
3	Other - Prohibit use of potable water for construction and dust control	0-1%	No new construction meter permits shall be issued by Loma Linda. All existing construction meters shall be removed and/or locked.	Yes
3	Other - Prohibit use of potable water for washing hard surfaces	0-1%	Washing down of driveways, parking lots or other impervious surfaces is prohibited.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water is prohibited.	Yes
3	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Filling or adding water to wading pools, ornamental ponds, fountains and artificial lakes are prohibited.	Yes
3	Other water feature or swimming pool restriction	0-1%	Filling or adding water to swimming pools and spas is prohibited.	Yes

4.3 Operational Changes and Additional Mandatory Restrictions

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. Loma Linda will consider their operational procedures when it completes its Annual Assessment. Any additional mandatory restrictions implemented in response to the declaration of a shortage response stage, beyond the actions listed in [Table 3](#) and [Table 4](#), are listed in Loma Linda's Ordinance 443 provided in [Attachment 1](#).

4.4 Emergency Response Plan

In 2021, Loma Linda will complete a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America's Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of Rialto's infrastructure. The RRA will assess Loma Linda's water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of Loma Linda's system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential and for use by Loma Linda's staff only. However, Loma Linda can confirm that these plans meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to Loma Linda's infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, Loma Linda is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. Loma Linda may also implement its three-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 3), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In order to prepare for seismic disasters Loma Linda has assessed the seismic risk and reliance of Loma Linda's water facilities in the RRA mentioned in the section above.

4.6 Shortage Response Action Effectiveness

Loma Linda has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#) when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

Loma Linda prioritizes effective communication, especially in times of a water shortage emergency. Loma Linda routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, direct mail pieces, newspaper and bus shelter advertisements, news releases, social media outreach, and website content. Loma Linda continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

Penalties and charges for excessive use are the heart of Ordinance 443 and the strongest incentive for conservation among the users. Service may be terminated to any customer who knowingly and willfully

violates any provision of the Water Shortage Plan and Ordinance 443. In addition, civil action penalties by Loma Linda can be enacted as summarized below:

- **First Violation** – Issuance of written notice of violation of water user.
- **Second Violation** – A \$100 surcharge is imposed on the water meter.
- **Third Violation** – A \$200 surcharge and/or installation of a flow restrictor on the water meter.
- **Subsequent Violations** – Discontinuance of service.

The director of public services may grant permits for uses of water otherwise prohibited under the provisions of this chapter if they find and determine that restrictions herein would either:

- **Hardship.** Cause an unnecessary and undue hardship to the water user or the public; or
- **Emergency.** Cause an emergency condition affecting the health, sanitation, fire protection or safety of the water use or of the public. (Ord. 443 § 1, 1991)

Such exceptions may be granted only upon written application. Upon granting such an exception permit, the director of public services may impose any conditions they determine to be just and proper. (Ord. 443 § 1, 1991)

7.0 Legal Authorities

Loma Linda’s Municipal Chapter 13.04, along with Ordinance 443, provided in [Attachment 1](#), outlines the WSCP. The Ordinance provides for exceptions under certain circumstances, establishes enforcement provisions, defines the methods for declaring and terminating water conservation stages, and provides for the form of notices and decisions of the City Council.

In accordance with CWC Section Division 1, Section 350, the City Council shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

If a water shortage is approaching, Loma Linda shall coordinate with any of the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

To ensure Loma Linda customers comply with Municipal Chapter 13.04 and Ordinance 443 and CWC Chapter 3.3 (Excessive Residential Water Use During Drought), additional costs may be incurred to monitor and enforce response actions. The incurred cost may vary depending on the shortage stage and duration of the water shortage emergency.

If the various stages set forth in Loma Linda’s WSCP are initiated, revenues will be impacted by reduced water sales. In order to minimize the financial impact this would have on Loma Linda, the monthly fixed revenues (monthly meter charges) need to cover the majority of the fixed costs of Loma Linda’s water system during such an event. The fixed costs are incurred by Loma Linda regardless of how much or when it delivers water to the customer. These costs generally include administration, personnel, billing, testing, maintenance, meter maintenance, pipeline and facility replacements. Expenditures during periods of drought may be impacted by additional staffing or advertising costs. Expenses such as capital improvements may be deferred during this reduction in sales when feasible.

To mitigate the financial impacts of a water shortage, Loma Linda maintains excess funds in the Water Enterprise Fund (Fund). This Fund is used for all operations associated with the running of the water system. Part of the Fund can be used to stabilize rates during periods of water shortage or disasters affecting the water supply.

Even with the additional monies in the Fund, rate increases may be necessary during a prolonged water shortage. Loma Linda may wish to increase the fixed monthly meter service charge to cover the shortfall in revenue resulting from the decrease in water sales during a water shortage. The additional revenue would help to cover any increased operating and water expenses that occur.

9.0 Monitoring and Reporting

During a water shortage, Loma Linda's Director of Public Services will monitor the supply and demand for water on a daily basis to determine the shortage response actions required by the implementation or termination of a WSCP stage and will notify the City Council of the necessity for the implementation or termination of a stage if a change in shortage conditions occurs. Each declaration of the City Council implementing or terminating a water conservation stage shall be published at least once in a newspaper of general circulation and shall be posted at the City's offices.

In normal water supply conditions, production figures are recorded daily. Totals are recorded daily on a continuous computerized monitoring system to the Water Department Supervisor. Totals are reported monthly to the City Administrator and incorporated into the water supply report to the Utilities Commission.

During a Stage 2 and Stage 3 water shortage, daily production figures will be reported to the Water Department Supervisor. The Water Department Supervisor compares daily production to the target daily production to verify that the reduction goal is being met. Reports are forwarded to the City Administrator on an as-needed basis, continuously if appropriate. Monthly reports are sent to the Utility Commission. If reduction goals are not met, the Administrator will notify the City Council so that additional action can be taken.

During a disaster shortage, the City Administrator will report continuously to the City Council and inform the San Bernardino County Office of Emergency Services. Special Council meetings can be convened should authorization for special actions be needed.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. Loma Linda will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to shortage response actions.

Any prospective changes to the WSCP would need to be presented to Loma Linda's City Council for discretionary approval. Once discretionary approval has been granted, Loma Linda will hold a public hearing, obtain any comments, and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

Loma Linda adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in May/June 2021 and a public hearing was held on **June 29, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The Loma Linda City Council adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 29, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on the City of Loma Linda web site.

If Loma Linda identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

References

- California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.
- Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.
- United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: City of Loma Linda Municipal Chapter 13.04 & Ordinance 443

SECTION FOUR

WATER SHORTAGE CONTINGENCY PLAN

Urban Water Shortage Contingency Analysis

This Contingency Analysis has been prepared in accordance with the guidelines in the California Water Code Section 10632 (a through I), established by the Department of Water Resources.

The City's municipal code Chapter 13.04 along with Ordinance 443 outline the stages of action to be implemented during a water shortage. The purpose is to provide water conservation measures in order to minimize the effect of a water shortage on the citizens of, and the economic well-being of the community. The municipal code adopts provisions that will significantly reduce the wasteful and inefficient consumption of water, thereby extending the available water resources required for the domestic, sanitation, and fire protection needs of the citizens served by the City while reducing the hardship on the City and the general public to the greatest extent possible.

The City's water production during the recent droughts has been sufficient to supply customer demands. The City has not had to implement Stages 2 or 3 of Ordinance 443. This is largely due to the City's construction of adequate water production facilities to meet adverse conditions. By continuing this philosophy, the City will be able to meet future demands, except under some extreme conditions where they may be forced, for a temporary period of time, to exercise the mandatory provisions of the City's Municipal Code.

Priorities for use of available water, based on California Water Code Chapter 3 and community input, are:

- Health & Safety** -- Interior residential and fire fighting
- Commercial & Governmental** -- Maintain jobs and economic base
- Existing Landscaping** -- Especially trees and shrubs
- New Demand** -- Projects without permits when shortage is declared

4.1 Stages of Action
 (California Water Code Section 10632 (a))

In Ordinance 443, the City has developed a three-stage action plan that includes voluntary and mandatory stages. The stages of action to be undertaken by the City in response to water supply shortages are described below along with an outline of specific water supply conditions which are applicable to each stage and the various restrictions and prohibitions included in the ordinance.

Supply Shortage Triggering Levels

The director of public services of the City shall monitor the supply and demand for water on a daily basis to determine the level of conservation required by the implementation or termination of the water conservation plan stages and shall notify the City Council of the necessity for the implementation or termination of each stage. Each declaration of the City Council implementing or terminating a water conservation stage shall be published at least once in a newspaper of general circulation, and shall be posted at the City's offices. Each declaration shall remain in effect until the City Council otherwise declares, as provided in this section. (Ord. 443 § 1 (part), 1991)

Exceptions may be granted by the director of public services if he finds and determines that the restrictions would cause hardship or cause an emergency condition.

In order to minimize the social and economic impact of water shortages, the City will manage water supplies prudently. This Plan is designed to provide a supply during a severe or extended water shortage as nearly normal as possible. The water shortage action plan triggering levels were established by the City Council to ensure that the above policy statements are implemented. These were shown in the Worst Case Water Supply Availability.

As the shortages become evident to the City Manager, he invokes the appropriate Stage, unless the City Council votes otherwise. Shortages may trigger a Stage at any time.

- STAGE 1** - Normal Conditions Voluntary conservation measures
- STAGE 2** - Threatened Water Supply Shortage - 25% Reduction in Supply
- STAGE 3** - Water Shortage Emergency
- Mandatory Conservation Measures - 50% Reduction in Supply

Table 4-1
Water Supply Shortage Stages and Conditions
Rationing Stages

Stage No.	Water Supply Conditions	% Shortage
Stage 1	Normal	Normal
Stage 2	Threatened Water Supply Shortage	25% Reduction in Supply
Stage 3	Water Shortage Emergency	50% Reduction in Supply

Stage 1 - Normal Conditions - Voluntary Conservation Measures

Normal conditions shall be in effect when the City is able to meet all the water demands of its customers in the immediate future. During normal conditions all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to that necessary for ordinary domestic and commercial purposes. (Ord. 443 § 1 (part), 1991)

Water rules and regulations in the City of Loma Linda are stipulated by Resolution No. 2241 (Adopted July 23, 2002), shown in the Appendix, hereby repealing resolution 1987. All revenues from water services become City revenues, solely for the purpose of operating, maintaining and expanding the water system and facilities.

Salient features of the water rate Resolution No. 2241 are: (1) a bi-monthly water usage charge based on meter size and minimum consumption, also its location (either inside or outside the City limits), (2) a quantity charge which increases substantially for larger blocks of usage. In general, the City of Loma Linda's rate schedule per Resolution No. 2241 is comprehensive, conservation structured and reflects the policy of direct payment per services rendered.

Resolution No. 2241 - Rate Schedule (Effective August 1, 2002)
Bi-Monthly Rates per CCF (Hundred Cubic Feet = 748 Gallons)

Table 4-2
Minimum Bi-Monthly Charge by Meter Sizes

Meter Size	Inside The City	Outside The City
5/8" x 3/4"	\$18.40	\$21.26
1"	\$33.67	\$38.73
1 1/2"	\$69.32	\$79.72
2"	\$161.41	\$185.62
3"	\$330.87	\$375.21
4"	\$502.42	\$654.28
6"	\$678.56	\$780.34
8"	\$766.62	\$881.61
10"	\$854.71	\$982.92

**Table 4-3
Water Rate Schedule**

Water Usage	Inside The City	Outside The City
From 0 to 1,000 cu. ft.	\$.873	\$ 1.004
From 1,001 to 40,000 cu. ft.	1.163	1.337
From 40,001 to 80,000 cu. ft.	1.279	1.471
80,001 cu. ft. and over	1.397	1.607

Stage 2 - Threatened Water Supply Shortage

In the event of a threatened water supply shortage which could affect the City's ability to provide water for ordinary domestic and commercial uses, the City Council shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the City. The City Council may then, by resolution, declare a water shortage condition to prevail, and the following conservation measures shall be in effect.

Exterior Landscape Plans - Landscape plans for all new commercial and industrial developments shall provide for timed irrigation and shall consider the use of drought resistant plants. Such plans shall be presented and approved by the City prior to issuance of a water service letter.

Excessive Irrigation and Related Waste - No customer of the City or other person acting on behalf of or under the direction of a customer shall cause or permit the use of water for irrigation of landscaping or other outdoor vegetation, plantings, lawns or other growth, to exceed the amount required to provide reasonable or excessive waste of water from such irrigation activities or from watering devices or systems. The free flow of water away from an irrigated site shall be presumptively considered excessive irrigation and waste as defined.

Agricultural Irrigation - Persons receiving water from the City who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the director of public services, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.

Commercial Facilities - Commercial and industrial facilities shall, upon request of the director of public services, provide the City with a plan to conserve water at their facilities. The City will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period. The facility will be expected to provide the City with a plan to conserve or reduce the amount of water used by that percentage deemed by the City Council to be necessary under the circumstances. After review and approval by the director of public services, the water conservation plan shall be considered subject to inspection and enforcement by the City.

Parks, Golf Courses, Swimming Pools and School Grounds - Public and private parks, golf courses, swimming pools and school grounds which use water provided by the City shall use water for irrigation and pool filling between the hours of six p.m. and six a.m.

Domestic Irrigation - Upon notice and public hearing, the City may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. The irrigation of exterior vegetation at other than these times shall be considered to be a waste of water.

Swimming Pool - All residential, public and recreational swimming pools, of all sizes, shall use evaporation resistant covers and shall re-circulate water. Any swimming pool which does not have a cover installed during periods of non-use shall be considered a waste of water.

Runoff and Wash down - No water provided by the City shall be used for the purposes of Wash down of impervious areas without specific written authorization of the director of public services. Any water used on a premises that is allowed to escape the premises and run off into gutters or storm drains shall be considered a waste of water.

Vehicle Washing - The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or at a commercial facility designated and so designated on the City's billing records.

Drinking Water Provided by Restaurants - Restaurants are requested not to provide drinking water to patrons except by request. (Ord. 443 § 1 (part), 1991)

Stage 3 - Water Shortage Emergency - Mandatory Conservation Measures

In the event of a water shortage emergency in which the City may be prevented from meeting the water demands of its customers, the City Council shall, if possible given the time and circumstances, immediately hold a public hearing at which customers of the City shall have the opportunity to protest and to present their respective needs to the City Council. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The director of public services is empowered to declare a water shortage emergency, subject to the ratification of the City Council within seventy-two hours of such declaration, and the following rules and regulations shall be in effect immediately following such declarations:

Prohibition - Watering of parks, school grounds, golf courses, lawn watering, landscape irrigation, Wash down of driveways, parking lots or other impervious surfaces, washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water, filling or adding water to swimming pools, wading pools, spas, ornamental ponds, fountains and artificial lakes are prohibited.

Restaurants - Restaurants shall not serve drinking water to patrons except by request.

Construction Meters - No new construction meter permits shall be issued by the City. All existing construction meters shall be removed and/or locked.

Commercial Nurseries and Livestock - Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary. (Ord. 443 § 1 (part), 1991)

4.2 Estimate of Minimum Supply for Next Three Years
 (California Water Code Section 10632 (b))

The City receives water supplies from City owned and operated groundwater wells which derives its water from the Bunker Hill ground water basin. The location of Loma Linda's existing and projected source wells are all within the portion of the Bunker Hill Basin which is the last part of the basin that would experience water loss. The Basin contains over 5,000,000 acre feet of water and has sufficient supply for many consecutive drought years without any natural recharge. Ground water pumping within this basin has been partially controlled by a court judgement, which determined that the safe yield for the Bunker Hill Basin to be 232,100 acre-feet per year. It is believed that this control on pumping, combined with State Project Water deliveries and annual rainfall is sufficient to replenish the basin storage level for all potential future demands.

During recent droughts, water levels in neighboring basins have declined over 300 feet while levels in the City's area of the Bunker Hill Basin only dropped 60 feet, for the same time period. Due to the relative stability of the groundwater level in the lower portion of the Bunker Hill Basin, other local water purveyors are shifting their main source of supply to the Bunker Hill Basin to offset production levels in times of drought.

The following table provides an estimate of the worst case water supply available from the City's wells for the next three years. The supply is based on 16 hours per day of pumping and 240 days. Should the City required additional supply they have the option of pumping more hours or more days.

Table 4-4
Worst Case Water Supply Availability
Three-Year Estimated Minimum Water Supply (AF/Yr)

Source	Normal Supply Year (1996)	Year 1 (2006)	Year 2 (2007)	Year 3 (2008)
Bunker Hill Groundwater Wells	4,953	7,466	7,602	9,723

The normal supply year of 1996 shown above is based on the actual production figures for that year. The available supply for years 1, 2 and 3 includes the production from existing City wells in addition to the planned supply projects that will commence during this time frame. As can be seen from Table 4-4 the worst case water supply will be sufficient to meet the projected demands for the City's service area.

4.3 Catastrophic Supply Interruption Plan (California Water Code Section 10632 (c))

Extended multi-week supply shortages due to natural disasters or accidents which damage all water sources are unlikely, but would be severe if more than one of the City's wells were out of service. The City's storage reservoirs hold 14.9 million gallons, which is sufficient treated water to meet the health and safety requirements (50) gpc for 23,000 people for 12 days. This assumes zero non-residential use.

In the event of a power shortage, the City has two portable backup generators at their disposal that they can utilize to provide supply from one well and boosting within the distribution system.

The City also has interconnections with two local water purveyors for emergency supplies. Those are the City of San Bernardino and the City of Redlands. The City also has an interconnect with the Loma Linda University water system as an emergency connection. There is no formal agreement for the exchange of water between the City and the University; however, the connection is metered to monitor any exchange of water between the two entities.

4.4 Prohibitions, Penalties, and Consumption Reduction Methods (California Water Code 10632 (d-f))

Consumption limits in the progressively restrictive stages are imposed on different uses. These are based on percentage reductions in water allotments, and restrictions on specific uses. The individual customer allotments will be based on the previous year's use. This gives the City a basis for reviewing appeals. The specific percentage reductions at each stage are listed in Table 4-1. The City has established block rate schedules for each stage of drought to encourage compliance with the restrictions.

Mandatory Prohibitions on Water Use

Mandatory provisions to reduce water use during the different Stages are summarized earlier in this chapter. Provisions of Ordinance No.443, Section 16 Water Conservation, prohibit the watering of parks, school grounds, golf courses, lawn watering, landscape irrigation, wash-down of driveways, parking lots or other impervious surfaces, washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water, filling or adding water to swimming pools, wading pools, spas, ornamental ponds, fountains and artificial lakes.

Penalties & Charges for Excessive Use

Penalties and charges for excessive use are the heart of Ordinance 443 and the strongest incentive for conservation among the users. The City of Loma Linda's current rate structure as summarized in Table-4-3, Water Rate Schedule, as adopted July 23, 2002 per Resolution No. 2241 is included in the Appendix.

The Water Department Manager has classified each customer. Each customer is made aware of their classification. New customers and connections will be notified at the time service commences. In a disaster, prior notice of allotment may not be possible; notice will be provided by other means. Any customer may appeal the Water Department Supervisor's classification on the basis of use or the percentage on the basis of incorrect calculation. Appeals shall be processed as set forth in Ordinance 443.

Service may be terminated to any customer who knowingly and willfully violates any provision of the Water Shortage Plan and Ordinance 443.

First Violation - The first time a customer exceeds the required percentage reduction, a written warning is sent to the customer and/or property owner personally or by regular mail.

Second Violation - For a second violation of this ordinance within a 12-month period or failure to comply with the notice of violation within the period stated, a surcharge of \$100 is imposed for the meter through which the wasted water was supplied.

Third Violation - For a third violation within a 12-month period, or for continued failure to comply within 30 days after notice of an imposition of second violation sanctions, a one month penalty surcharge in the amount of \$200 is imposed. In addition to the surcharge, the City may, at its discretion, install a flow-restricting device at the meter. The charge to the customer for installing a flow-restricting device is based on the size of meter and the actual cost of installation but shall not be less than that provided in the City's rules and regulations. The charge for removal of the flow restricting device and restoration of normal service shall be as provided in the City's rules and regulations.

Subsequent Violations -For any subsequent violation of this ordinance within the twenty-four (24) calendar months after a first violation, the penalty surcharge provided shall be imposed and the City may discontinue water service to that customer at the premises or to the meter where the violation occurred. The charge for re-connection and restoration of normal service shall be as provided in the rules and regulations of the City. Such restoration of service shall not be made until the director of public services of the City has determined that the water user has provided reasonable assurances that future violations by such user will not occur.

4.5 Analysis of Revenue Impacts on Reduced Sales During Shortages (California Water Code Section 10632 (g))

Revenues will be impacted when, reduced water sales during the various stages as set forth in the City's Water Shortage Contingency Plan, are initiated. In order to minimize the financial impact this would have on the City, the monthly fixed revenues (monthly meter charges) need to cover the majority of the fixed costs of the City's water system during such an event.

The fixed costs are incurred by the City regardless of how much or when it delivers water to the customer. These costs generally include administration, personnel, billing, testing, maintenance, meter maintenance, pipeline and facility replacements.

Expenditures during periods of drought may be impacted by additional staffing or advertising costs. Expenses such as capital improvements should be deferred during this reduction in sales when feasible. The City, which produces all of the water consumed by its customers, will not have the added cost of a more expensive purchased water source.

In order to mitigate the financial impacts of a water shortage, the City maintains excess funds in the Water Enterprise Fund (Fund). This Fund is used for all operations associated with the running of the water system. Part of the Fund can be used to stabilize rates during periods of water shortage or disasters affecting the water supply. The City has a current balance of \$2.1 million dollars in the Fund.

Even with the additional monies in the Fund, rate increases may be necessary during a prolonged water shortage. The City may wish to increase the fixed monthly meter service charge to cover the shortfall in revenue resulting from the decrease in water sales during a water shortage. The additional revenues would also help to cover any increased operating and water expenses that occur.

The experiences of California water purveyors during the 1990-91 drought shortage demonstrated that actual water use reductions by customers are usually larger than those requested by the supplier. During the 1990-91 drought shortage it was also politically difficult for many agencies to adopt the rate increases necessitated by a 20 to 50 percent reduction in sales.

After an extended water shortage, water revenues are expected to fall below pre-shortage levels. The water use is projected at 90% of the pre-shortage use, which could result in a reduction of revenue during the twelve month period after the end of a water supply shortage.

As described in Table 4-1, a water supply shortage calls for a reduction in water consumption, mandatory conservation measures and prohibited water uses. When a water shortage emergency is declared, the supply shortage will trigger the appropriate rationing stage and appropriate charges and penalties.

The City is currently undergoing a rate review. The review will analyze the existing rate structure, and formulate changes that would allow the City to meet their fixed annual expenditures with fixed revenue. The monthly meter charge is a fixed revenue that the City will receive regardless of the amount of water consumed. An increase in fixed revenue will help to offset any loss of revenue seen during a reduction in consumption due to the implementation of any of the stages of action outlined in Ordinance 443.

4.6 Draft Ordinance and Use Monitoring Procedure (California Water Code Section 10632 (h-I))

Implementation of the Plan - In the event of a threatened water supply shortage which could affect the City's ability to provide water for ordinary domestic and commercial uses, the City Council shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the City. The City Council may then, by resolution, declare a water shortage condition to prevail.

Water Use Monitoring Procedures - The director of public services of the City shall monitor the supply and demand for water on a daily basis to determine the level of conservation required by the implementation or termination of the water conservation plan stages and shall notify the City Council of the necessity for the implementation or termination of each stage. Each declaration of the City Council implementing or terminating a water conservation stage shall be published at least once in a newspaper of general circulation, and shall be posted at the City's offices. Each declaration shall remain in effect until the City Council otherwise declares, as provided in this section.

Stage 1 - Normal Condition - Monitoring Procedure

In normal water supply conditions, production figures are recorded daily. Totals are reported daily on a continuous computerized monitoring system to the Water Department Supervisor. Totals are reported monthly to the City Administrator and incorporated into the water supply report to the Utilities Commission.

Stage 2 - Threatened Water Supply Shortage - Monitoring Procedure

During a Stage 2 water shortage, daily production figures are reported to the Supervisor. The Supervisor compares the daily production to the target daily production to verify that the reduction goal is being met. Reports are forwarded to the City Administrator on an as-needed basis, continuously if appropriate. Monthly reports are sent to the Utility Commission. If reduction goals are not met, the Administrator will notify the City Council so that corrective action can be taken.

Stage 3 - Water Shortage Emergency - Monitoring Procedure

During a Stage 3 water shortage, the procedure listed above will be followed.

Disaster Shortage

During a disaster shortage, the City Administrator will report continuously to the City Council and inform the San Bernardino County Office of Emergency Services. Special Council meetings can be convened should authorization for special action be needed.

A coordinated response to water supply shortages is necessary for uniformity in developing, implementing and enforcing Drought Contingency Plans. The City's primary source of water is groundwater wells within the Bunker Hill Basin. SBVMWD's primary function is to plan and develop a long-range water supply for water agencies within this Basin.

Chapter 13.04 WATER DEPARTMENT

Note

* Prior ordinance history: Ords. 1, 294, 286 and 333.

13.04.010 Short title.

This chapter shall be known and may be cited as the “utility services division (water) of the community services department” of the city. (Ord. 443 § 1, 1991)

13.04.020 Definitions.

As used in this chapter:

- A. Words and Phrases. For the purpose of this chapter, all words used in the present tense shall include the future; all words in the plural number shall include the singular number; and all words in the singular number shall include the plural number.
- B. “City council” means the city council of the city of Loma Linda, California. All decisions of the city manager and city staff may be appealed to the city council pursuant to Section 2.08.030.
- C. “City staff” means the employees and contract representatives of the city who are appointed to administer and operate the water system of the city.
- D. “Connection” means the pipe line and appurtenant facilities such as the curb stop, meter and meter box, all used to extend water service from the main to premises, the laying thereof and the tapping of the main. Where services are divided at the curb or property line to serve several customers, each such branch service shall be deemed a separate service.
- E. “Cost” means the cost of labor, material, transportation, supervision, engineering, and all other necessary overhead expense.
- F. “Cross-connection” means any physical connection between the piping system from the division’s service and that of any other water supply that is not, or cannot be, approved as safe and potable for human consumption, whereby water from the unapproved source may be forced or drawn into the utility services division (water) distribution mains.
- G. “Main” means a water pipe line in a street, highway, alley, or easement used for public and private fire protection and for general distribution of water.
- H. “Owner” means the person owning the fee, or the person in whose name the legal title to the property appears, by deed duly recorded in the county recorder’s office, or the person in possession of the property or buildings under claim of, or exercising acts of ownership over same for himself, or as executor, administrator, guardian or trustee of the owner.
- I. “Person” means an individual or a company, association, copartnership or public or private corporation.
- J. “Premises” means a lot or parcel of real property under one ownership, except where there are well-defined boundaries or partitions such as fences, hedges, or other restrictions preventing the common use of the

property by the several tenants, in which case each portion shall be deemed separate premises. Apartment houses and office buildings may be classified as single premises.

K. “Private fire protection service” means water service and facilities for building sprinkler systems, hydrants, hose reels and other facilities installed on private property for fire protection and the water available therefor.

L. “Public fire protection service” means the service and facilities of the entire water supply, storage and distribution system of the division, including the fire hydrants affixed thereto, and the water available for fire protection, excepting house service connections and appurtenances thereto.

M. “Regular water service” means water service and facilities rendered for normal domestic, commercial and industrial purposes on a permanent basis, and the water available therefor.

N. “Temporary water service” means water service and facilities rendered for construction work and other uses of limited duration, and the water available therefor.

O. “Utility services division (water)” means division operated under the jurisdiction of the city council represented by appropriate employees or agents. (Ord. 443 § 1, 1991)

13.04.030 Notice—To customers.

Notices to customers by the division will normally be given in writing and either delivered or mailed to him at his last known address. Where conditions warrant, and in emergencies, the utility services division (water) may resort to notification either by telephone or messenger. (Ord. 443 § 1, 1991)

13.04.040 Notice—From customers.

Notices from customers to the utility services division (water) may be given by the customer or his authorized representative in writing, in person or by mail at the division’s office. (Ord. 443 § 1, 1991)

13.04.050 Authority of public services director.

The public services director shall have full charge and control of the maintenance, operation and construction of the water works and water distribution system of the district. The public services director shall regularly inspect all physical facilities related to the city water system, to see that they are in good repair and proper working order, and to note and report violations of any ordinances or water regulations. (Ord. 443 § 1, 1991)

13.04.060 Supervisory employees designated.

The supervisory employees of the utility services division (water) shall consist of public services director and a utility services superintendent. (Ord. 443 § 1, 1991)

13.04.070 Administrative powers and duties.

Regular inspection of all physical facilities belonging and related to the city water system to ensure they are in good repair and proper working order and to note violations of any water regulations. The public services director or his designee shall have charge of other employees working under his direct supervision, particularly relating to the repair and maintenance of the water system and the reading of customer meters. He shall report and be responsible to the city manager in all matters pertaining to the operation of the utility

services division (water). In the event of an emergency requiring immediate action, he shall take whatever steps are necessary to maintain customer service pending further action by the city manager, if any. Supervision of all repair or construction work authorized by the city council and any other duties prescribed elsewhere in this chapter or which shall, after the effective date of the ordinance codified in this chapter, be prescribed by the rules and regulations of the city council are the responsibility of the public services director or his designee. (Ord. 443 § 1, 1991)

13.04.080 Delegation of utility services.

In the absence of the public services director, the duties set forth may be performed by another employee who may be designated by the public services director to perform such duties. (Ord. 443 § 1, 1991)

13.04.090 Department to furnish system.

The city will furnish a system, plant, and works used for and useful in obtaining, conserving and disposing of water for public and private uses, including all appurtenances to it, and lands, easements, rights in land, water rights, contract rights, franchises, and other water supply, storage and distribution facilities and equipment, including but not limited to private and public developed projects both on-site and off-site. (Ord. 443 § 1, 1991)

13.04.100 Acceptance of conditions required.

All applicants for service connections or water service shall be required to accept such conditions of pressure and services as are provided by the distributing system at the location of the proposed service connection, and to hold the city harmless for any damages arising out of low pressure or high pressure conditions or interruptions in service. (Ord. 443 § 1, 1991)

13.04.110 Department not responsible for pressure.

The city shall not accept any responsibility for the maintenance of pressure, and it reserves the right to discontinue service while making emergency repairs, etc. Consumers dependent upon a continuous supply of water should provide their own emergency storage. (Ord. 443 § 1, 1991)

13.04.120 Valve operation restricted to department.

No one except an employee or representative of the utility services division (water) shall at any time in any manner operate the curb cocks or valves, except for repair on private property or to avoid property damage, main cocks, gates or valves of the city's water system or interfere with meters or their connections, street mains or other parts of the water system. (Ord. 443 § 1, 1991)

13.04.130 Service discontinuance authorized for noncompliance.

For the failure of the customer or his agent to comply with all or any part of this chapter and any ordinance, resolution, or order fixing rates and charges of the city's utility service division (water), the customer's service shall be discontinued, and water shall not be supplied such customer until he shall have complied with the rule or regulation which he has violated or paid the rates or charges made against him for services rendered. This section shall be in addition to any other remedies authorized by law. (Ord. 443 § 1, 1991)

13.04.140 Division right to determine connection size and location.

The utility services division (water) reserves the right to determine the size of service connections and their location with respect to the boundaries of the premises to be served. The laying of consumer's pipe line to the curb should not be done until the location of the service connection has been approved by the utility services division (water) superintendent. (Ord. 443 § 1, 1991)

13.04.150 Curb cock or valve required.

Every service connection installed by the utility services division (water) shall be equipped with a curb cock or ball valve on the inlet side of the meter. Such valve or curb cock is intended for the exclusive use of the utility services division (water) in controlling the water supply through the service connection pipe. If the curb cock or valve is damaged by the consumer's use to an extent requiring replacement, such replacement shall be at the consumer's expense. (Ord. 443 § 1, 1991)

13.04.160 Service connection regulations.

Domestic, commercial and industrial service connections shall conform with the following rules and any deviation therefrom shall be deemed unlawful:

A. **Separate Building.** Each house or building under separate ownership must be provided with a separate service connection. Two or more houses under one ownership and on the same lot or parcel of land may be supplied through the same service connection; provided, that for each house under a separate roof which shall face a street, an additional minimum water charge will be applied to the single meter serving the house or a separate service connection may be provided for each building. The city reserves the right to limit the number of houses or the area of land under one ownership to be supplied by one service connection.

B. **Single Connection.** Not more than one service connection for domestic or commercial water supply shall be installed for one building, except under special conditions approved by the public services director.

C. **Different Owners.** A service connection shall not be used to supply adjoining property of a different owner or to supply property of the same owner across a street or an alley.

D. **Divided Property.** When property provided with a service connection is divided, each service connection shall be considered as belonging to the lot or parcel of land which it directly enters.

E. **Service Connections.** The service connections extending from the water main to the property line and including the meter, meter box and curb cock or ball valve, shall be maintained by the utility services division (water). All pipes and fixtures extending or lying beyond the meter or seven feet from main whichever is closer shall be installed and maintained by the owner of the property. (Ord. 443 § 1, 1991)

13.04.170 Main extension—Regulations.

The following rules are established for making main extensions:

A. Any owner of one or more lots or parcels, or a subdivider of a tract of land, desiring the extension of one or more water mains, to serve such property, shall make a written application therefor to the utility services division (water), such application to contain the legal description of the property to be served and tract number thereof, and any additional information which may be required by the city, and be accompanied by a map showing the location of the proposed connections.

B. Upon receipt of the application, the utility services division (water) shall make an investigation and survey of the proposed extension and shall report the findings to the city council, including the estimated cost of any extensions involving the utility services division (water).

C. The city council shall thereupon consider the application and report of the utility services division (water) and after such consideration reject or approve the same.

D. All extensions of mains, fire hydrants, laterals and connections provided for in accordance with this chapter and approved by the city council shall by agreement become and remain the property of the city. When a contractor or subdivider installs water mains, fire hydrants, laterals and connections in any subdivisions at his own expense, but under the supervision of the utility services division (water), such installations, upon completion and before water service is provided shall be transferred to the ownership of the city by appropriate grant deed and bill of sale.

E. No dead-end lines shall be permitted, except with the approval of the utility services superintendent, and in cases where circulation lines are necessary they shall be designed and approved by the utility services division (water) in advance of installation before becoming a part of the city system.

F. The city will provide all main pipe line extensions in existing streets to properties along dedicated roads and streets upon application for water service and if in their opinion such water service is economically feasible and to the advantage of the city system in serving the requirements of the area. The cost of such extension of water mains shall be at the expense of the applicant or group of applicants to be shared by them. If an applicant could be served adequately by a certain size pipe line to provide for future expansion of water services in the area, the city may agree to share the cost of the pipe lines on terms agreeable to both parties concerned. In the event that a larger pipe line is installed at partial cost to the city, the city may require future water users in the area who apply for new connections to reimburse the utility services division (water) for such main line extension cost until the full amount of the cost has been recovered.

G. If the property owners or subdividers initiating the pipe line extension are required to defray the entire cost of any main line extension under these regulations, and they wish to put up the entire cost of the project, the city may agree to reimburse such property owners or subdividers over a period of years by requiring all new connections in that area to pay a proportionate amount of the cost to the city, which money shall then be paid to the original investors until the full amount has been paid. (Ord. 443 § 1, 1991)

13.04.180 Independent pipe line systems required when.

The applicant may apply for as many services as may be reasonably required for his premises provided that the pipe line system for each service be independent of the others and that they not be interconnected. (Ord. 443 § 1, 1991)

13.04.190 Wasting water prohibited—Service discontinuance authorized when.

No customer shall knowingly permit leaks or waste water. Where water is wastefully or negligently used on a customer's premises, seriously affecting the general service, the utility services division (water) may discontinue the service if such conditions are not corrected within five days after giving the customer written notice. (Ord. 443 § 1, 1991)

13.04.200 Facilities department property—Obstruction removal authorized.

All facilities installed by the city on private property for the purpose of rendering water service shall remain the property of the city and may be maintained, repaired or replaced by the utility services division (water) without the consent or interference of the owner or occupant of the property. The owner shall use

reasonable care in the protection of the facilities. No payment shall be made for placing or maintaining the facilities on private property. Shrubbery or plants must not be planted adjacent to fire hydrants or water meters. If property owners do not cooperate in this, the city shall have the right to remove such obstructions at the expense of the property owner after giving notice of such intention. (Ord. 443 § 1, 1991)

13.04.210 Customer liability for facilities damage.

The customer shall be liable for any damage to the service facilities when such damage is from causes originating on the premises by an act of the customer or his tenants, agents, employees, contractors, licensees, or permittees, including the breaking or destruction of locks by the customer or others on or near a meter, and any damage to a meter that may result from hot water or steam from a boiler or heater on the customer's premises. The city shall be reimbursed by the customer for any such damage promptly on presentation of a bill for same. (Ord. 443 § 1, 1991)

13.04.220 Attaching ground wires prohibited.

All individuals or business organizations are forbidden to attach any ground wire or wires to any plumbing which is or may be connected to a service connection or main belonging to the city. The city shall hold the customer liable for any damage to its property occasioned by such ground wire attachments. (Ord. 443 § 1, 1991)

13.04.230 Customer required to provide valve.

The customer shall provide a valve on his side of the service installation, as close to the meter location as practicable, to control the flow of water to the pipe lines on his premises. The customer shall not use the service curb valve to turn meter on and off for his convenience. (Ord. 443 § 1, 1991)

13.04.240 Department right-of-entry.

Representatives from the utility services division (water) shall have the right of ingress and egress to the customer's premises at reasonable hours for any purpose reasonably connected with the furnishing of water service. (Ord. 443 § 1, 1991)

13.04.250 Unauthorized connection to avoid charges.

A customer, subdivider or their employees or agents shall not make illegal and unauthorized connections to the water system with or without a meter, thus avoiding the record of payment of water charges. (Ord. 443 § 1, 1991)

13.04.260 Meters—Installation—Sealing.

Meters will be installed on or near property lines and shall be owned by the city and installed and removed at its expense. No rent or other remuneration will be paid by the city for a meter or other facilities including connections belonging to individuals. All meters will be sealed by the utility services division (water) at the time of installation, and no seal shall be altered or broken except by one of the utility services division (water) authorized employees or agents. (Ord. 443 § 1, 1991)

13.04.270 Meters—Relocation charges.

Meters moved for the convenience of the customer will be relocated at the customer's expense. Meters moved to protect the city's property will be moved at its expense. If the lateral distance which the customer desires to have the meter moved exceeds eight feet, he will be required to pay for new service at the desired location. (Ord. 443 § 1, 1991)

13.04.280 Service discontinuance authorized for cross-connection.

Water service may be refused or discontinued to any premises where there exists a cross-connection in violation of state or federal laws. (Ord. 443 § 1, 1991)

13.04.290 Service discontinuance—Fraud or abuse.

Service may be discontinued if necessary to protect the city against fraud or abuse. (Ord. 443 § 1, 1991)

13.04.300 Service discontinuance—Noncompliance.

Service may be discontinued for noncompliance with this chapter or any other ordinance or regulation relating to the water service. (Ord. 443 § 1, 1991)

13.04.310 Water service application—Form.

A property owner or his agent may make application for regular water service on a form provided by the utility services division (water). Such application shall signify the customer's willingness and intention to comply with this chapter and other ordinances or regulation relating to the regular water service and to make payment for the water service received. (Ord. 443 § 1, 1991)

13.04.320 Water service application—Payment of past service required.

An application for water service will not be honored unless payment in full has been made for water service previously rendered to the applicant within the boundaries of the division. (Ord. 443 § 1, 1991)

13.04.330 Connection charges—Installation by authorized personnel.

A. Where a regular charge has been fixed for the type of service connection desired, such regular charges shall be paid in advance by the applicant. Where there is no regular fixed charge, the city reserves the right to require the applicant to deposit an amount equal to the estimated cost of such service connection. The current schedule of regular service connection charges is in resolution form.

B. Only duly authorized employees or agents of the utility services division (water) will be authorized to install service connections. (Ord. 443 § 1, 1991)

13.04.340 Service installation—Main abutment required.

Regular water services will be installed at the location desired by the applicant, of the size determined by the utility services division (water). Service installation will be made only to property abutting on distribution mains as have been constructed in public streets, alleys or easements, or to extensions thereof as provided in

this chapter. Service installed in new subdivisions prior to the construction of streets or in advance of street improvements must be accepted by the applicant in the installed location. (Ord. 443 § 1, 1991)

13.04.350 Service requirements changes—Notice required.

Customers making any material change in the size, character or extent of the equipment or operations utilizing water services, or whose change in operations results in a large increase in the consumption of water, shall immediately give the utility services division (water) written notice of the nature of the change and, if necessary, amend or change their original application. (Ord. 443 § 1, 1991)

13.04.360 Subdivision system application—Required.

A person or persons desiring to provide a water system within a tract of land which he proposes to subdivide, shall make written application therefor. (Ord. 443 § 1, 1991)

13.04.370 Subdivision system application—Contents.

The application shall state the number of the tract, the name of the subdivision, and its location. It shall be accompanied by a copy of the final map and of the plans, profiles and specifications for the street work therein. (Ord. 443 § 1, 1991)

13.04.380 Subdivision system—Compliance required.

If approved by the city council, it shall be required that the subdivider shall meet all specifications set forth by the American Water Works Association and city standards and specifications as to adequate size, type and quality of materials used and the location of main lines, valves, connections, fire hydrants, etc., and comply with all requirements of the State Health Department and the department of public safety (fire division). (Ord. 443 § 1, 1991)

13.04.390 Subdivision system—Subdivider responsibility—Division inspection.

The utility services division (water) will not undertake on its own initiative to provide or construct any main extension pipe lines in a subdivision or for the extension of main lines from existing pipe lines to the subdivision area. Such subdivision main lines and service required, together with any extension of existing pipe lines to such area, shall be the responsibility of and at the expense of the subdivider. He shall provide and arrange for the construction of all main lines, valves, connections and hydrants with laterals to the inside of curb. Upon completion of the construction project, the system shall be inspected by utility services and if approved, the subdivider shall be required to obtain final approval of the city engineer. Upon such approval, the subdivider shall be required to transfer his ownership in the mains, valves, fire hydrants, laterals, connections, etc., to the city before any regular water service shall be supplied to the subdivided tract or area. (Ord. 443 § 1, 1991)

13.04.400 Subdivision system—Division payment for larger main installation.

If the city council shall require a subdivider or other person to install a larger size main pipe line than that which would normally be required or necessary to serve the interests of the subdivider or others, by consent and written agreement between the subdivider or others and the city council, the utility services division (water) may agree to pay for the difference in cost between the small size main pipe line and the large one

which is deemed necessary and desirable for future expansion of the system. All final agreements must be approved and ratified by the city council. (Ord. 443 § 1, 1991)

13.04.410 Department right to set meter—Consumer liability for negligence.

The utility services division (water) reserves the right to set and maintain a meter on any service connection. The water consumer shall be held liable, however, for any damage to the meter due to customer's negligence or carelessness and in particular, for damage caused by hot water or steam from the premises. (Ord. 443 § 1, 1991)

13.04.420 Guarantee deposit required when.

All water customers who are renters, subdividers or builders subject to frequent change of customers shall be required to make a guarantee deposit set by resolution per connection returnable or applicable to the last or closing bill. (Ord. 443 § 1, 1991)

13.04.430 Temporary service—Connection discontinuance.

Temporary service connections shall be discontinued and terminated within six months after installation unless an extension of time is granted in writing by the utility services division (water). (Ord. 443 § 1, 1991)

13.04.440 Temporary service—Cost deposit required—Connection charges.

The applicant shall deposit, in advance, the estimated cost of installing and removing the facilities required to furnish the service exclusive of the cost of salvageable material. Upon discontinuance of service, the actual cost shall be determined and an adjustment made as an additional charge, refund or credit. If service is supplied through a fire hydrant, the applicant will be charged as per resolution. (Ord. 443 § 1, 1991)

13.04.450 Temporary service—Facilities operation.

All facilities for temporary service to the customer connection shall be made by the utility services division (water) and shall be operated in accordance with its instructions. (Ord. 443 § 1, 1991)

13.04.460 Temporary service—Meter responsibility.

The customer shall use all possible care to prevent damage to the meter or to any other loaned facilities of the utility services division (water) which are involved in furnishing the temporary service from the time they are installed until they are removed, or until forty-eight hours' notice in writing has been given to the utility services division (water) that the contractor or other person is through with the meter or meters and the installation. If the meter or other facilities are lost or damaged, the cost of the meter or cost of making repairs shall be paid by the customer. (Ord. 443 § 1, 1991)

13.04.470 Temporary service—Hydrant use regulations.

An applicant for temporary use of water from a fire hydrant must secure a permit therefor from the utility services division (water) and pay the regular fee charged for the installation and removal of a meter to be installed on the hydrant, provide himself with a hydrant wrench necessary to operate such hydrant, and pay for

the water used in accordance with the meter readings, at the rates prescribed by resolution. (Ord. 443 § 1, 1991)

13.04.480 Tampering with hydrant prohibited.

Tampering with any fire hydrant for the unauthorized use of water therefrom, or for any other purpose, is punishable by law. (Ord. 443 § 1, 1991)

13.04.490 Temporary service—Advance payment or credit references required.

The applicant shall pay the estimated cost of water service in advance or shall be otherwise required to establish acceptable credit references. (Ord. 443 § 1, 1991)

13.04.500 Arrangements for large quantities of water required.

When an abnormally large quantity of water is desired for filling a swimming pool or for other purposes, arrangements must be made with the utility services division (water) prior to taking such water. Permission to take water in unusual quantities will be given only if it can be safely delivered through the city's facilities and if other consumers are not inconvenienced thereby. (Ord. 443 § 1, 1991)

13.04.510 Equipment maintenance required.

The customer shall, at his own risk and expense, furnish, install and keep in good and safe condition all equipment that may be required for receiving, controlling, applying and utilizing water, and the city shall not be responsible for any loss or damage caused by the improper installation of such equipment, or the negligence or wrongful act of the customer or of any of his tenants, agents, employees, or contractors, licensees or permittees in installing, maintaining, operating or interfering with such equipment. The city shall not be responsible for and will not consider refunds or credits for the loss or wastage of water occasioned by the breakage, leakage or damage to pipe lines on customer's property which is beyond the customer's water meter. The city also shall not be responsible for damage to property caused by faucets, valves and other equipment that are open when water is turned on at the customer's meter, either originally or when turned on after a temporary shutoff. (Ord. 443 § 1, 1991)

13.04.520 Collection by suit—Defendant payment of costs.

Defendant shall pay all costs of suit in any judgment rendered in favor of the city. (Ord. 443 § 1, 1991)

13.04.530 Hydrants—Authorized use only permitted.

Fire hydrants are for use by the utility services division (water) or by the department of public safety (fire division). Other parties desiring to use fire hydrants for any purpose must first obtain written permission from the utility services division (water) prior to use and shall operate the hydrant in accordance with instructions issued by the utility services division (water). Unauthorized use of hydrants will be prosecuted according to law. (Ord. 443 § 1, 1991)

13.04.540 Hydrants—Maintenance charge.

A charge, to be determined by contract between the utility services division (water) and organized fire protection agencies will be imposed for hydrant maintenance and water used for public fire protection. (Ord. 443 § 1, 1991)

13.04.550 Hydrants—Change in location.

When a fire hydrant has been installed in the location specified by proper authority, the city has fulfilled its obligation. If a property owner or other party desires a change in the size, type or location of the hydrant, he shall bear all costs of such changes without refund. Any change in the location of a fire hydrant must have the approval of the proper authority. (Ord. 443 § 1, 1991)

13.04.560 Private fire protection—Applicant to pay installation cost.

The applicant for private fire protection service shall pay the total actual cost of installation of the service from the distribution main to the customer's premises, including the cost of an approved double detector check device as per City Standard W-11. Customer shall be responsible for maintenance and testing of such device and meter at cost. (Ord. 443 § 1, 1991)

13.04.570 Private fire protection—Connection with other systems prohibited.

There shall be no connections between this fire protection system and any other water distribution system on the premises. (Ord. 443 § 1, 1991)

13.04.580 Private fire protection—Fire extinguishing and testing purposes only authorized.

There shall be no water used through the fire protection service except to extinguish fires and for testing the firefighting equipment. (Ord. 443 § 1, 1991)

13.04.590 Private fire protection—Charges double when—Exception.

Any consumption recorded on the meter will be charged for at double the regular service rates, except that no charge will be made for water used to extinguish fires where such fires have been reported to the department of public safety (fire division). (Ord. 443 § 1, 1991)

13.04.600 Private fire protection—Rate determination.

The monthly rates for private fire protection shall be established by the utility services division (water) upon receipt of application. (Ord. 443 § 1, 1991)

13.04.610 Private fire protection—Tank filling authorized when.

Occasionally water may be obtained from a private fire service for filling a tank connected with a fire service, but only if permission is secured from the utility services division (water) in advance and an approved means of measurement is available. The regular water rates will be applied. (Ord. 443 § 1, 1991)

13.04.620 Private fire protection—Service discontinuance authorized when.

If water is used from a private service in violation of the agreement or of this chapter, the city may, at its option, discontinue and remove the service. (Ord. 443 § 1, 1991)

13.04.630 Private fire protection—Department nonresponsibility for damage.

The city assumes no responsibility for loss or damage due to lack of water or pressure, either high or low, and merely agrees to furnish such quantities and pressures as are available in its general distribution system. The service is subject to shutdowns and variations required by the operation of the system. (Ord. 443 § 1, 1991)

13.04.640 Private fire protection—Other service connections authorized.

The city shall have the right to take a domestic, commercial or industrial service connection from the fire service connection at the curb to supply the same premises as those to which the fire service connection belongs. The city shall also have the right to determine the proportion of the installation costs properly chargeable to each service connection, if such segregation of costs shall become necessary. (Ord. 443 § 1, 1991)

13.04.650 Private fire protection—Check valve installation authorized.

The city reserves the right to install on all fire service connections a double detector check as per City Standard W-11, at the expense of the owner of the property. (Ord. 443 § 1, 1991)

13.04.660 Backflow protective device—Installation required when.

The customer must comply with state and federal laws governing the separation of dual water systems or installations of backflow protective devices to protect the public water supply from the range of cross-connections. Backflow protective devices must be installed as per city standard and shall be open to test and inspection by the utility services division (water). Plans for the installation of backflow protection devices must be approved by the utility services division (water) prior to installation. (Ord. 443 § 1, 1991)

13.04.670 Pressure relief valves required when.

As a protection to the customer's plumbing system, a suitable pressure relief valve must be installed and maintained by him, at his expense, when check-valves or other protective devices are used. The relief valve shall be installed between the check-valve and the water heater. (Ord. 443 § 1, 1991)

13.04.680 Backflow protective device—Required on supply lines when.

Whenever backflow protection has been found necessary on a water supply line entering a customer's premises, then any and all water supply lines from the utility services division (water) mains entering such premises, buildings, or structures shall be protected by an approved backflow device, regardless of the use of the additional water supply lines. (Ord. 443 § 1, 1991)

13.04.690 Backflow protective device—Inspection and testing.

The double check valve or other approved backflow protection devices shall be inspected and tested in accordance with the California Administrative Code Title 17 by the utility services division (water) or a certified tester. The devices shall be serviced, overhauled, or replaced whenever they are found defective, and all costs of repair and maintenance shall be borne by the customer. (Ord. 443 § 1, 1991)

13.04.700 Service discontinuance authorized for check valve installation defected.

The service of water to any premises may be immediately discontinued by the utility services division (water) if any defect is found in the check valve installations or other protective devices, or if it is found that dangerous unprotected cross-connections exist. Service will not be restored until such defects are corrected. (Ord. 443 § 1, 1991)

13.04.710 Department nonliability for service interruption damage.

The city shall not be liable for damage which may result from an interruption in service from a cause beyond the control of the utility services division (water). (Ord. 443 § 1, 1991)

13.04.720 Billing—Period.

The regular billing period will be monthly or bimonthly at the option of the utility services division (water). (Ord. 443 § 1, 1991)

13.04.730 Meters—Reading.

Meters will be read as nearly as possible on the same day of each month, as near the end of each month as practicable and reasonably possible. (Ord. 443 § 1, 1991)

13.04.740 Opening and closing bill proration.

Opening and closing bills for less than the normal billing period shall be prorated both as to minimum charges and quantity by blocks of one hundred cubic feet. If the total period for which service is rendered is less than one month, the bill shall not be less than the monthly minimum charge applicable. Closing bills may be estimated by the utility services division (water) for the final period as an expediency to permit the customer to pay the closing bill at the time service is discontinued. (Ord. 443 § 1, 1991)

13.04.750 Charges due when.

Water charges are due and payable within twenty days of billing date to the property owner or his tenant or agency as designated in the application, and delinquent twenty days after the date indicated on the bill. Service may be discontinued without further notice if payment is not made by the delinquent date. (Ord. 443 § 1, 1991)

13.04.760 Billing—Payment due notice required.

Bills for metered water services shall be rendered at the end of each billing period. Flat rate service shall be billed in advance. Bills shall be payable on presentation. On each bill for water service rendered by the utility

services division (water) shall be printed substantially as follows: “Payment is due within twenty (20) days of billing date. Service may be turned off if account is unpaid.” (Ord. 443 § 1, 1991)

13.04.770 Billing—Separate bills required—Exception.

Separate bills will be rendered for each meter installation except where the utility services division (water) has, for its own convenience, installed two or more meters in place of one meter. Where such installations are made the meter readings will be combined for billing purposes. (Ord. 443 § 1, 1991)

13.04.780 Payment guarantee required for turn on.

The water charge begins when a service connection is installed and the meter is set, unless the water is ordered to be left shut off when the service connection is ordered to be installed. Before water is turned on by the utility services division (water) for any purpose whatever, the property owner or tenant must sign a form in which he guarantees payment of future water bills for the service required. The person signing the guarantee form or meter set form will be held liable for water used until the utility services division (water) is notified in writing to discontinue service or to transfer the account to another owner or tenant. (Ord. 443 § 1, 1991)

13.04.790 Unauthorized water use—Consumer liability.

A person taking possession of premises and using water from an active service connection without having made application to the utility services division (water) for meter service shall be held liable for the water delivered from the date of the recorded meter reading, and if the meter is found inoperative, the quantity consumed will be estimated. If proper allocation for water service is not made upon notification to do so by the utility services division (water), and if accumulated bills for service are not paid immediately, the service may be discontinued by the utility services division (water) without further notice. (Ord. 443 § 1, 1991)

13.04.800 Department nonliability for wasted water.

When turning on the water supply as requested, and the house or property is vacant, the utility services division (water) will endeavor to ascertain if water is running on the inside of the building. If such is found to be the case, the water will be left shut off at the curb cock on the inlet side of the meter. The utility services division (water) jurisdiction and responsibility ends at the property line for all purposes, and the utility services division (water) will in no case be liable for loss of wasted water or for damages occasioned by water running from open or faulty fixtures, or from broken, leaking or damaged pipes inside of the property line of the customer. (Ord. 443 § 1, 1991)

13.04.810 Desired discontinuance—Notification required.

Customers desiring to discontinue service should so notify the utility services division (water) two days prior to vacating the premises. Unless discontinuance of service is ordered, the customer shall be liable for regular charges whether or not any water is used. (Ord. 443 § 1, 1991)

13.04.820 Collection by suit—Authorized when.

All unpaid rates and charges and penalties provided in this chapter may be collected by suit. (Ord. 443 § 1, 1991)

13.04.830 Service rates.

Each and all premises which are served by a connection to the water system of the city shall be charged and the owner thereof shall pay a water service usage charge based upon a schedule for such charges fixed by resolution duly adopted by the city council. (Ord. 443 § 1, 1991)

13.04.840 Administrative decision appeal—City council action final.

All ruling of the city council shall be final. All administrative decisions of the staff concerning city policies, rules or regulations shall be appealed, if at all, to the city council within ten days subsequent to written notice of such administrative decision; otherwise, the decision shall be deemed final. (Ord. 443 § 1, 1991)

13.04.850 Meter testing—Required when—Procedure.

All meters will be tested prior to installation, and no meter will be installed which registers more than two percent fast. If a customer desires to have the meter serving his premises tested, he shall first deposit the fees required and may be present when the meter is tested in the meter shop of the utility services division (water). Should the meter register more than two percent fast, the deposit will be refunded, but should the meter register less than two percent fast, the deposit will be retained by the utility services division (water). (Ord. 443 § 1, 1991)

13.04.860 Meter testing—Refund authorized when.

If a meter tested at the request of a customer is found to be more than two percent fast, the excess charges for the time service was rendered the customer requesting the test, or for a period of six months, whichever shall be the lesser, shall be refunded to the customer. (Ord. 443 § 1, 1991)

13.04.870 Meter testing—Additional billing authorized when.

If a meter tested at the request of a customer is found to be more than five percent slow, the utility services division (water) may bill the customer for the amount of the undercharge based upon corrected meter readings for the period, not exceeding six months, that the meter was in use. (Ord. 443 § 1, 1991)

13.04.880 Charge estimate when meter not registering.

If a meter is found to be not registering, the charges for service shall be at the minimum monthly rate or based on the estimated consumption, whichever is greater. Such estimates shall be made from previous consumption records for a comparable period or by such other method as is determined by the utility services division (water) and its decision shall be final. (Ord. 443 § 1, 1991)

13.04.890 Service discontinuance authorized for nonpayment.

Service may be discontinued for nonpayment of bills on or before the twentieth day following the date of billing. (Ord. 443 § 1, 1991)

13.04.900 Failure to receive bill no relief of liability.

Failure to receive a bill for service rendered does not relieve consumer of liability. Any amount due shall be deemed a debt to the city, and any person, firm or corporation failing, neglecting or refusing to pay such indebtedness shall be liable to an action in the name of the city in any court of competent jurisdiction for the amount thereof. (Ord. 443 § 1, 1991)

13.04.910 Reconnection charge—Meter removal charge.

A reconnection charge, plus penalties as per resolution shall be made and collected prior to renewing service following a discontinuance of water service due to nonpayment of bill, and an additional charge shall be made whenever it is deemed necessary to remove the meter from the premises. (Ord. 443 § 1, 1991)

13.04.920 Delinquent charge penalty.

Rates and charges which are not paid on or before the day of delinquency shall be subject to a penalty of ten percent and thereafter shall be subject to a further penalty of two percent per month on the first day of each month following. (Ord. 443 § 1, 1991)

13.04.930 Security deposit charge.

The security deposit is the charge which insures payment of minimum utility service division (water) charges. Upon discontinuance of service the security deposit shall be applied to reduce any unpaid charges outstanding on the customer's account. The amount of deposit required shall be established by the city council in the resolution on fees. The security deposit shall be refunded to the customer as provided in this section. (Ord. 443 § 1, 1991)

13.04.940 Waste or nuisance water and other substances.

It is unlawful for any person, firm or corporation to deposit, drain, wash, allow to run or divert into or upon any public road, highway, street or alley, drainage ditch, storm drain or flood control channel owned by or controlled by any public agency within the city, any water, mud, or sand; except that, upon written application of any person filed with the city and approved by the director of public services, the city may, upon such terms and conditions as it may deem advisable to impose, including the charging of a fee therefor, grant a permit to such person to do any of the acts prohibited by this section, provided the same shall not be detrimental to the public health, safety or welfare. For purposes of enforcement of this section, the owner of the meter or property which is the source of the waste or nuisance water or other substance as defined in this section is considered the party responsible for any violations cited under this section. (Ord. 443 § 1, 1991)

13.04.950 Conservation measures—Stage No. 1 normal conditions—Voluntary conservation measures.

Normal conditions shall be in effect when the city is able to meet all the water demands of its customers in the immediate future. During normal conditions all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to that necessary for ordinary domestic and commercial purposes. (Ord. 443 § 1, 1991)

13.04.960 Stage No. 2—Threatened water supply shortage.

In the event of a threatened water supply shortage which could affect the city's ability to provide water for ordinary domestic and commercial uses, the city council shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the city. The city council may then, by resolution, declare a water shortage condition to prevail, and the following conservation measures shall be in effect.

A. Exterior Landscape Plans. Exterior landscape plans for all new commercial and industrial development shall provide for timed irrigation and shall consider the use of drought resistant varieties of flora. Such plans shall be presented and approved by the city prior to issuance of a water service letter.

B. Excessive Irrigation and Related Waste. No customer of the city or other person acting on behalf of or under the direction of a customer shall cause or permit the use of water for irrigation of landscaping or other outdoor vegetation, plantings, lawns or other growth, to exceed the amount required to provide reasonable or excessive waste of water from such irrigation activities or from watering devices or systems. The free flow of water away from an irrigated site shall be presumptively considered excessive irrigation and waste as defined.

C. Agricultural Irrigation. Persons receiving water from the city who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the director of public services, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.

D. Commercial Facilities. Commercial and industrial facilities shall, upon request of the director of public services, provide the city with a plan to conserve water at their facilities. The city will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period. The facility will be expected to provide the city with a plan to conserve or reduce the amount of water used by that percentage deemed by the city council to be necessary under the circumstances. After review and approval by the director of public services, the water conservation plan shall be considered subject to inspection and enforcement by the city.

E. Parks, Golf Courses, Swimming Pools and School Grounds. Public and private parks, golf courses, swimming pools and school grounds which use water provided by the city shall use water for irrigation and pool filling between the hours of six p.m. and six a.m.

F. Domestic Irrigation. Upon notice and public hearing, the city may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. The irrigation of exterior vegetation at other than these times shall be considered to be a waste of water.

G. Swimming Pool. All residential, public and recreational swimming pools, of all sizes, shall use evaporation resistant covers and shall recirculate water. Any swimming pool which does not have a cover installed during periods of nonuse shall be considered a waste of water.

H. Runoff and Washdown. No water provided by the city shall be used for the purposes of washdown of impervious areas without specific written authorization of the director of public services. Any water used on a premises that is allowed to escape the premises and run off into gutters or storm drains shall be considered a waste of water.

I. Vehicle Washing. The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or at a commercial facility designated and so designated on the city's billing records.

J. Drinking Water Provided by Restaurants. Restaurants are requested not to provide drinking water to patrons except by request. (Ord. 443 § 1, 1991)

13.04.970 Stage No. 3—Water shortage emergency—Mandatory conservation measures.

In the event of a water shortage emergency in which the city may be prevented from meeting the water demands of its customers, the city council shall, if possible given the time and circumstances, immediately hold a public hearing at which customers of the city shall have the opportunity to protest and to present their respective needs to the city council. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The director of public services is empowered to declare a water shortage emergency, subject to the ratification of the city council within seventy-two hours of such declaration, and the following rules and regulations shall be in effect immediately following such declarations:

- A. Prohibition. Watering of parks, school grounds, golf courses, lawn watering, landscape irrigation, washdown of driveways, parking lots or other impervious surfaces, washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water, filling or adding water to swimming pools, wading pools, spas, ornamental ponds, fountains and artificial lakes are prohibited.
- B. Restaurants. Restaurants shall not serve drinking water to patrons except by request.
- C. Construction Meters. No new construction meter permits shall be issued by the city. All existing construction meters shall be removed and/or locked.
- D. Commercial Nurseries and Livestock. Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary. (Ord. 443 § 1, 1991)

13.04.980 Mandatory compliance—Implementation and termination.

The director of public services of the city shall monitor the supply and demand for water on a daily basis to determine the level of conservation required by the implementation or termination of the water conservation plan stages and shall notify the city council of the necessity for the implementation or termination of each stage. Each declaration of the city council implementing or terminating a water conservation stage shall be published at least once in a newspaper of general circulation, and shall be posted at the city offices. Each declaration shall remain in effect until the city council otherwise declares, as provided in this section. (Ord. 443 § 1, 1991)

13.04.990 Mandatory compliance—Exception permits.

The director of public services may grant permits for uses of water otherwise prohibited under the provisions of this chapter if he finds and determines that restrictions herein would either:

- A. Hardship. Cause an unnecessary and undue hardship to the water user or the public; or
- B. Emergency. Cause an emergency condition affecting the health, sanitation, fire protection or safety of the water use or of the public. (Ord. 443 § 1, 1991)

13.04.1000 Exception granted.

Such exceptions may be granted only upon written application therefor. Upon granting such exception permit, the director of public services may impose any conditions he determines to be just and proper. (Ord. 443 § 1, 1991)

13.04.1010 Enforcement, inspection.

Authorized employees of the city, after proper identification may, during reasonable hours, inspect any facility having a water conservation plan, and may enter onto private property for the purpose of observing the operation of any water conservation device, irrigation equipment or water facility. Employees of the city may also observe the use of water or irrigation equipment within the city from public rights-of-way and as alleged violations are reported to the city. (Ord. 443 § 1, 1991)

13.04.1020 Civil penalties for violation.

Violators of the mandatory provisions of this chapter shall be subject to civil action initiated by the city as follows:

A. First Violation. For a first violation, the city shall issue a written notice of violation to the water user violating the provisions of this chapter. The notice shall be given pursuant to the requirements listed in Sections 13.04.970 and 13.04.980.

B. Second Violation. For a second violation of this chapter within a twelve-month period or for failure to comply with the notice of violation within the period stated, a surcharge of one hundred dollars is imposed for the meter through which the wasted water was supplied.

C. Third Violation. For a third violation of this chapter within a twelve-month period, or for continued failure to comply within thirty days after notice of an imposition of second violation sanctions, a one-month penalty surcharge in the amount of two hundred dollars is imposed for the meter through which the wasted water was supplied. In addition to the surcharge, the city may, at its discretion, install a flow-restricting device at such meter with a one-eighth inch orifice for services up to one and one-half inch size, and comparatively sized restrictors for larger services, on the service of the customer at the premises at which the violation occurred for a period of not less than forty-eight hours. The charge to the customer for installing a flow-restricting device shall be based upon the size of the meter and the actual cost of installation but shall not be less than that provided in the city's rules and regulations. The charge for removal of the flow-restricting device and restoration of normal service shall be as provided in the city's rules and regulations.

D. Subsequent Violations—Discontinuance of Service. For any subsequent violation of this chapter within the twenty-four calendar months after a first violation as provided in this section, the penalty surcharge shall be imposed and the city may discontinue water service to that customer at the premises or to the meter where the violation occurred. The charge for reconnection and restoration of normal service shall be as provided in the rules and regulations of the city. Such restoration of service shall not be made until the director of public services of the city has determined that the water user has provided reasonable assurances that future violations of this chapter by such user will not occur. (Ord. 443 § 1, 1991)

13.04.1030 Notification of violation.

A. First Violation. For a first violation, written notice shall be given to the customer and/or property owner personally or by regular mail.

B. Subsequent Violation. If the penalty assessed is a surcharge for a second or third violation, notice may be given by regular mail.

C. Penalties Involving Installation of Flow-restrictors or Discontinuance of Water Service. If the penalty assessed is, or includes, the installation of a flow restrictor or the discontinuance of water service to the customer for any period of time, notice of the violation shall be given in the following manner:

1. Personal Service. By giving written notice thereof to the occupant and/or property owner personally, or if the occupant and/or property owner is absent from his/her place of residence and from his/her assumed place of business, by leaving a copy with some person of suitable age and discretion at either place, and

sending a copy through the United States mail addressed to the occupant and/or owner of his/her place of business or residence; or

2. Posting. If such place of residence and business cannot be ascertained, or a person of suitable age or discretion cannot be located, then by affixing a copy in a conspicuous place on the property where the failure to comply is occurring and also by delivering a copy to a person there residing, if such person can be found, and also sending a copy through the United States mail addressed to the occupant at the place where the property is situated and to the owner if different. (Ord. 443 § 1, 1991)

13.04.1040 Form of notice.

All notices provided for in Section 13.04.1030 shall contain, in addition to the facts of the violation, a statement of the possible penalties for each violation and a statement informing the occupant/owner of his/her right to a hearing on the violation. (Ord. 443 § 1, 1991)

13.04.1050 Hearing.

Any customer or property owner against whom a penalty is levied pursuant to this chapter shall have a right to a hearing, in the first instance by the director of public services, with the right of appeal to the city council, on the merits of the alleged violation upon the written request of that customer within fifteen days of the date of alleged violation. At the next regularly scheduled meeting, the customer may then appear and present any evidence in support of his position and ask for a decision by the city council. (Ord. 443 § 1, 1991)

13.04.1060 Delays on action.

The city council shall act promptly to resolve the dispute, but may delay a resolution of the dispute to the time of its next regular meeting in order to investigate the dispute or receive special reports related to the dispute. (Ord. 443 § 1, 1991)

13.04.1070 Decision of the city council.

The decision of the city council shall be final. Should the city council not render a decision within sixty days of application to the city council, this failure to act shall be deemed a denial of the requested action, unless both parties have agreed to extend the resolution period. (Ord. 443 § 1, 1991)

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Chapter 13.32 WATER-EFFICIENT LANDSCAPE

13.32.010 Purpose.

- A. The State Legislature has found that:
 1. The limited supply of state waters are subject to ever increasing demands;
 2. California's economic prosperity depends on adequate supplies of water;
 3. State Policy promotes conservation and efficient use of water;
 4. Landscapes provide recreation areas, clean the air and water, prevent erosion, offer fire protection and replace ecosystems displaced by development; and
 5. Landscape design, installation and maintenance can and should be water efficient.
- B. Consistent with the legislative findings, the purpose of this chapter is to:
 1. Promote the values and benefits of landscapes while recognizing the need to invest water and other resources as efficiently as possible;
 2. Establish a structure for designing, installing and maintaining water-efficient landscapes in new projects; and
 3. Establish provisions for water management practices and water waste prevention for established landscapes. (Ord. 488 § 1, 1992)

13.32.020 Definitions.

The words used in this chapter have the meaning set forth below:

"Anti-drain valve" or "check valve" means a valve located under a sprinkler head to hold water in the system so it minimizes drainage from the lower elevation sprinkler heads.

"Application rate" means the depth of water applied to a given area, usually measured in inches per hour.

"Applied water" means the portion of water supplied by the irrigation system to the landscape.

"As-builts" means a set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

"Automatic controller" means a mechanical or solid state timer, capable of operating valve stations to set the days and length of time of a water application.

"Backflow prevention device" means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.

"Conversion factor (0.62)" means a number that converts the maximum applied water allowance from acre-inches per acre per year to gallons per square foot per year. The conversion factor is calculated as follows:

$$(325,829 \text{ gallons}/43,560 \text{ square feet})/12 \text{ inches} = (0.62)$$

$$325,829 \text{ gallons} = \text{one acre foot}$$

$$43,560 \text{ square feet} = \text{one acre}$$

$$12 \text{ inches} = \text{one foot}$$

To convert gallons per year to 100-cubic-feet per year, another common billing unit for water, divide gallons per year by 748. (748 gallons = 100 cubic feet.)

"Ecological restoration project" means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

"Effective precipitation" or "usable rainfall" means the portion of total precipitation that is used by the plants. Precipitation is not a reliable source of water, but can contribute to some degree toward the water needs of the landscape.

"Emitter" means drip irrigation fittings that deliver water slowly from the system to the soil.

"Established landscape" means the point at which plants in the landscape have developed roots into the soil adjacent to the root ball.

"Established period" means the first year after installing the plant in the landscape.

"Estimated applied water use" means the portion of the estimated total water use is derived from applied water. The estimated applied water use shall not exceed the maximum applied water allowance. The estimated applied water use may be the sum of the water recommended through the irrigation schedule.

"Estimated total water use" means the annual total amount of water estimated to be needed to keep the plants in the landscaped area healthy. It is based upon such factors as the local evapotranspiration rate, the size of the landscaped area, the types of plants and the efficiency of the irrigation system.

"ET adjustment factor" means a factor of 0.8, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape.

A combined plant mix with a site-wide average of 0.5 is the basis of the plant factor portion of this calculation. The irrigation efficiency for purposes of the ET adjustment factor is 0.625, therefore, the ET adjustment factor $(0.8) = (0.5/0.625)$.

"Evapotranspiration" means the quantity of water evaporated from adjacent soil surfaces and transpired by plants during a specific time.

"Flow rate" means the rate at which water flows through pipes and valves (gallons per minute or cubic feet per second).

"Hydrozone" means a portion of the landscaped area having plants with similar water needs that are served by a valve or set of valves with the same schedule. A hydrozone may be irrigated or non-irrigated. For example, a naturalized area planted with native vegetation that will not need supplemental irrigation once established is a non-irrigated hydrozone.

"Infiltration rate" means the rate of water entry into the soil expressed as a depth of water per unit of time (inches per hour).

"Irrigation efficiency" means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The minimum irrigation efficiency for purposes of this chapter is 0.625. Greater irrigation efficiency can be expected from well designed and maintained systems.

"Landscape irrigation audit" means a process to perform site inspections, evaluate irrigation systems and develop efficient irrigation schedules.

"Landscaped area" means the entire parcel less the building footprint, driveways, non-irrigated portions of parking lots, hardscapes — such as decks and patios and other non-porous areas. Water features are included in the calculation of the landscaped area. Areas dedicated to edible plants, such as orchards or vegetable gardens are not included.

"Lateral line" means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.

"Main line" means the pressurized pipeline that delivers water from the water source to the valve or outlet.

"Maximum applied water allowance" means, for design purposes, the upper limit of annual applied water for the established landscaped area. It is based upon the area's reference evapotranspiration, the ET adjustment factor, and the size of the landscaped area. The estimated applied water use shall not exceed the maximum applied water allowances.

"Mined-land reclamation projects" means any surface mining operation with a reclamation plan approved in accordance with the Surface Mining and Reclamation Act of 1975.

“Mulch” means any material such as leaves, bark, straw or other materials left loose and applied to the soil surface to reduce evaporation.

“Operating pressure” means the pressure at which a system of sprinklers is designed to operate, usually indicated at the base of a sprinkler.

“Overspray” means the water which is delivered beyond the landscaped area, wetting pavements, walks, structures or other non-landscaped areas.

“Plant factor” means a factor that when multiplied by reference evapotranspiration, estimates the amount of water used by plants. For purposes of this chapter, the average plant factor or low water using plants ranges from 0 to 0.3, for average water using plants the range is 0.4 to 0.6, and for high water using plants the range is 0.7 to 1.0.

“Rain sensing device” means a system which automatically shuts off the irrigation system when it rains.

“Record drawing” or “as-builts” means a set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

“Recreational area” means areas of active play or recreation such as sports fields, school yards, picnic grounds or other areas with intense foot traffic.

“Recycled water,” “reclaimed water,” or “treated sewage effluent water” means treated or recycled waste water of a quality suitable for nonpotable uses such as landscape irrigation; not intended for human consumption.

“Reference evapotranspiration” or “ETo” means a standard measurement of environmental parameters which affect the water use of plants. ETo is given in inches per day, month, or year, and is an estimate of the evapotranspiration of a large field of four-inch to seven-inch tall, cool-season grass that is well watered. Reference evapotranspiration is used as the basis of determining the maximum applied water allowances so that regional differences in climate can be accommodated.

“Rehabilitated landscape” means any re-landscaping project that requires a permit.

“Run off” means water which is not absorbed by the soil or landscape to which it is applied and flows from the area. For example, run off may result from water that is applied at too great a rate (application rate exceeds infiltration rate) or when there is a severe slope.

“Soil moisture sensing device” means a device that measures the amount of water in the soil.

“Soil texture” means the classification of soil based on the percentage of sand, silt, and clay in the soil.

“Sprinkler head” means a device which sprays water through a nozzle.

“Static water pressure” means the pipeline or municipal water supply pressure when water is not flowing.

“Station” means an area served by one valve or by a set of valves that operate simultaneously.

“Turf” means a surface layer of earth containing mowed grass with its roots. Annual bluegrass, Kentucky bluegrass, perennial ryegrass, red fescue, and tall fescue are cool-season grasses. Bermudagrass, kikuyugrass, seashore paspalum, St. Augustinegrass, zoysiagrass, and buffalo grass are warm-season grasses.

“Usable rainfall” means the portion of total precipitation that is used by the plants. Precipitation is not a reliable source of water, but can contribute to some degree toward the water needs of the landscape.

“Valve” means a device used to control the flow of water in the irrigation system.

“Water conservation concept statement” means a one-page checklist and a narrative summary of the project as shown in Exhibit “A” set out following this chapter. (Ord. 488 § 1, 1992)

13.32.030 Provisions for new or rehabilitated landscapes.

- A. **APPLICABILITY.**
 1. Except as provided in Section 13.32.030(A)(3), this section shall apply to:
 - a. All new and rehabilitated landscaping for public agency projects and private development projects that requires a permit; and
 - b. Developer-installed landscaping in landscape maintenance district areas of single-family and multi-family projects.
 2. Projects subject to this section shall conform to the provisions in this chapter.
 3. This section shall not apply to:
 - a. Homeowner-provided landscaping at single-family and multi-family projects;
 - b. Cemeteries;
 - c. Registered historical sites;
 - d. Ecological restoration projects that do not require a permanent irrigation system; or
 - e. Mined-land reclamation projects that do not require a permanent irrigation system; or
 - f. Any project with a landscaped area less than twenty-five thousand square feet.
- B. **LANDSCAPE DOCUMENTATION PACKAGE.**
 1. A copy of the landscape documentation package conforming to this chapter shall be submitted to the city or county. No permit shall be issued until the city or county reviews and approves the landscape documentation package.
 2. A copy of the approved landscape documentation package shall be provided to the property owner or site manager along with the record drawings and any other information normally forwarded to the property owner or site manager.
 3. A copy of the water conservation concept statement and the certificate of substantial completion shall be sent by the project manager to the local retail water purveyor.
 4. Each landscape documentation package shall include the following elements, which are described herein:
 - a. Water conservation concept statement;
 - b. Calculation of the maximum applied water allowance;
 - c. Calculation of the estimated applied water use;
 - d. Calculation of the estimated total water use;
 - e. Landscape design plan;
 - f. Irrigation design plan;
 - g. Irrigation schedule;
 - h. Maintenance schedule;
 - i. Landscape irrigation audit schedule;
 - j. Grading design plan;
 - k. Soil analysis;
 - l. Certificate of substantial completion (to be submitted after installation of the project.)
 5. If effective precipitation is included in the calculation of the estimated total water use, then an effective precipitation disclosure statement from the landscape professional and the property owner shall be submitted with the landscape documentation package.
- C. **ELEMENTS OF LANDSCAPE DOCUMENTATION PACKAGE.**
 1. **Water Conservation Concept Statement.** Each landscape documentation package shall include a cover sheet, referred to as the water conservation concept statement similar to the following example. It serves as a check list to verify that the elements of the landscape documentation package have been completed and has a narrative summary of the project.

2. The Maximum Applied Water Allowance.

- a. A project's maximum applied water allowance shall be calculated using the following formula:

MAWA	=	(ETo) (.8) (LA) (.62) where:
MAWA	=	Max. applied water allowance (gallons per year)
ETo	=	Reference evapotranspiration (inches per year)
0.8	=	ET adjustment factor
LA	=	Landscaped area (square feet)
0.62	=	Conversion factor (to gallons per square foot)

b. Two example calculations of the maximum applied water allowance

- i. Project Site One: Landscaped area of 50,000 sq. ft. in Fresno

MAWA	=	(ETo) (.8) (LA) (.62)
	=	(51 inches) (.8) (50,000 square feet) (.62)
		Maximum applied water allowance = 1,264,800 gallons per year (or 1,691 hundred-cubic-feet per year; 1,264,800/748 = 1,691)

- ii. Project Site Two: Landscaped area of 50,000 sq. ft. in San Francisco

MAWA	=	(ETo) (.8) (LA) (.62)
	=	(35 inches) (.8) (50,000 square feet) (.62)
		Maximum Applied Water Allowance = 868,000 gallons per year (or 1,160 hundred-cubic-feet per year)

c. Portions of landscaped areas in public and private projects such as parks, playgrounds, sports fields, golf courses, or school yards where turf provides a playing surface or serves other recreational purposes may require water in addition to the maximum applied water allowance. A statement shall be included with the landscape design plan, designating areas to be used for such purposes and specifying any needed amount of additional water above the maximum applied water allowance.

3. Estimated Applied Water Use.

- a. The estimated applied water use shall not exceed the maximum applied water allowance.
- b. A calculation of the estimated applied water use shall be submitted with the landscape documentation package. It may be calculated by summing the amount of water recommended in the irrigation schedule.

4. Estimated Total Water Use.

- a. A calculation of the estimated total water use shall be submitted with the landscape documentation package. The estimated total water use may be calculated by summing the amount of water recommended in the irrigation schedule and adding any amount of water expected from effective precipitation (not to exceed twenty-five percent of the local annual mean precipitation) or may be calculated from a formula such as the following:

The estimated total water use for the entire landscaped area equals the sum of the estimated water use of all hydrozones in that landscaped area:

EWU (hydrozone)	=	$\frac{(ET_o)(PF)(HA)(.62)}{(IE)}$
EWU (hydrozone)	=	Estimated water use (gallons per year)
ETo	=	Reference evapotranspiration (inches per year)
PF	=	Plant factor
HA	=	Hydrozone area (square feet)
(.62)	=	Conversion factor
IE	=	Irrigation efficiency

- b. If the estimated total water use is greater than the estimated applied water use due to precipitation being included as a source of water, an effective precipitation disclosure statement such as the one in the section entitled "Effective Precipitation" shall be included in the landscape documentation package.

5. Landscape Design Plan. A landscape design plan meeting the following requirements shall be submitted as part of the landscape documentation package:

- a. Plant Selection and Grouping.
- i. Any plants may be used in the landscape, providing the estimated applied water use recommended does not exceed the maximum applied water allowance and that the plants meet the specifications set forth in subsections (a)(ii), (a)(iii), and (a)(iv) immediately following.
- ii. Plants having similar water use shall be grouped together in distinct hydrozones.
- iii. Plants shall be selected appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the site. Protection and preservation of native species and natural areas is encouraged. The planting of trees is encouraged wherever it is consistent with the other provisions of this chapter.
- iv. Fire prevention needs shall be addressed in areas that are fire prone. Information about fire prone areas and appropriate landscaping for fire safety is available from local fire departments or the California Department of Forestry.
- b. Water Features.
- i. Recirculating water shall be used for decorative water.
- ii. Pool and spa covers are encouraged.
- c. Landscape Design Plan Specifications. The landscape design plan shall be drawn on project base sheets at a scale that accurately and clearly identifies:
- i. Designation of hydrozones;
- ii. Landscape materials, trees, shrubs, groundcover, turf, and other vegetation. Planting symbols shall be clearly drawn and plants labeled by botanical name, common name, container size, spacing, and quantities of each group of plants indicated;

- iii. Property lines and street names;
 - iv. Streets, driveways, walkways, and other paved areas;
 - v. Pools, ponds, water features, fences and retaining walls;
 - vi. Existing and proposed buildings and structures including elevation if applicable;
 - vii. Natural features including but not limited to rock outcroppings, existing trees, shrubs that will remain;
 - viii. Tree staking, plant installation, soil preparation details, and any other applicable planting and installation details;
 - ix. A calculation of the total landscaped area;
 - x. Designation of recreational areas.
6. Irrigation Design Plan. An irrigation design plan meeting the following conditions shall be submitted as part of the landscape documentation package:
- a. Irrigation Design Criteria.
 - i. Runoff and Overspray. Soil types and infiltration rate shall be considered when designing irrigation systems. All irrigation systems shall be designed to avoid runoff, low head drainage, overspray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways or structures. Proper irrigation equipment and schedules, including features such as repeat cycles, shall be used to closely match application rates to infiltration rates therefore minimizing runoff.

Special attention shall be given to avoid runoff on slopes and to avoid overspray in planting areas with a width less than ten feet, and in median strips. No overhead sprinkler irrigation systems shall be installed in median strips less than ten feet wide.
 - ii. Irrigation Efficiency. For the purpose of determining the maximum water allowance, irrigation efficiency is assumed to be 0.625. Irrigation systems shall be designed, maintained, and managed to meet or exceed 0.625 efficiency.
 - iii. Equipment.
 - (A) Water Meters. Separate landscape water meters shall be installed for all projects except for single family homes or any projects except for single-family homes or any project with a landscaped area of less than five thousand square feet.
 - (B) Controllers. Automatic control systems shall be required for all irrigation systems and must be able to accommodate all aspects of the design.
 - (C) Valves. Plants which require different amounts of water shall be irrigated by separate valves. If one valve is used for a given area, only plants with similar water use shall be used in that area. Anti-drain (check) valves shall be installed in strategic points to minimize or prevent low-head drainage.
 - (D) Sprinkler Heads. Heads and emitters shall have consistent application rates within each control valve circuit. Sprinkler heads shall be selected for proper area coverage, application rate, operating pressure, adjustment capability, and ease of maintenance.
 - (E) Rain Sensing Override Devices. Rain sensing override devices shall be required on all irrigation systems.
 - (F) Soil Moisture Sensing Devices. It is recommended that soil moisture sensing devices be considered where appropriate.
 - b. Recycled Water.
 - i. The installation of recycled water irrigation systems (dual distribution systems) shall be required to allow for the current and future use of recycled water, unless a written exemption has been granted as described in the following subsection (b)(ii).
 - ii. Irrigation systems shall make use of recycled water unless a written exemption has been granted by the local water agency, stating that recycled water meeting all health standards is not available and will not be available in the foreseeable future.
 - iii. The recycled water irrigation systems shall be designed and operated in accordance with all local and state codes.
 - c. Irrigation Design Plan Specifications. Irrigation systems shall be designed to be consistent with hydrozones. The irrigation design plan shall be drawn on project base sheets. It should be separate from, but use the same format as, the landscape design plan. The scale shall be the same as that used for the landscape design plan.

The irrigation design plan shall accurately and clearly identify:

 - i. Location and size of separate water meters for the landscape;
 - ii. Location, type and size of all components of the irrigation system, including automatic controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, and backflow prevention devices;
 - iii. Static water pressure at the point of connection to the public water supply;
 - iv. Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (psi) for each station;
 - v. Recycled water irrigation systems as specified in this chapter.
7. Irrigation Schedules. Irrigation schedules satisfying the following conditions shall be submitted as part of the landscape documentation package:
- a. An annual irrigation program with monthly irrigation schedules shall be required for the plant establishment period, for the established landscape, and for any temporarily irrigated areas.
 - b. The irrigation schedule shall:
 - i. Include run time (in minutes per cycle), suggested number of cycles per day, and frequency of irrigation for each station; and
 - ii. Provide the amount of applied water (in hundred cubic feet, gallons or whatever billing units the local water supplier uses) recommended on a monthly and annual basis.
 - c. The total amount of water for the project shall include water designated in the estimated total water use calculation plus water needed for any water features, which shall be considered as a high water using hydrozone.
 - d. Recreational areas designated in the landscape design plan shall be highlighted and the irrigation schedule shall indicate if any additional water is needed above the maximum applied water allowance because of high plant factors (but not due to irrigation inefficiency).
 - e. Whenever possible, irrigation scheduling shall incorporate the use of evapotranspiration data such as those from the California Irrigation Management Information System (CIMIS) weather stations to apply the appropriate levels of water for different climates.
 - f. Whenever possible, landscape irrigation shall be between two a.m. and ten a.m. to avoid irrigating during times of high wind or high temperature.
 - 8. Maintenance Schedules. A regular maintenance schedule satisfying the following conditions shall be submitted as part of the landscape documentation package:
 - a. Landscapes shall be maintained to ensure water efficiency. A regular maintenance schedule shall include but not be limited to checking, adjusting, and repairing irrigation equipment; resetting the automatic controller; aerating and dethatching turf areas; replenishing mulch; fertilizing; pruning, and weeding in all landscaped areas.
 - b. Whenever possible, repair of irrigation equipment shall be done with the originally specified materials or their equivalents.
 - 9. Landscape Irrigation Audit Schedules. A schedule of landscape irrigation audits, for all but single-family residences, satisfying the following conditions shall be submitted to the city or county as part of the landscape documentation package:
 - a. At a minimum, audits shall be in accordance with the state of California Landscape Water Management Program as described in the Landscape Irrigation Auditor Handbook, the entire document, which is incorporated by reference. (See Landscape Irrigation Auditor Handbook (June 1990) Version 5.5 [formerly Master Auditor Training].)
 - b. The schedule shall provide for landscape irrigation audits to be conducted by certified landscape irrigation auditors at least once every five years.
 - 10. Grading Design Plan. Grading design plans satisfying the following conditions shall be submitted as part of the landscape documentation package:
 - a. A grading design plan shall be drawn on project base sheets. It should be separate from but use the same format as the landscape design plan.

b. The grading design plan shall indicate finished configurations and elevations of the landscaped area, including the height of graded slopes, drainage patterns, pad elevations, and finish grade.

11. Soils.

a. A soil analysis satisfying the following conditions shall be submitted as part of the landscape documentation package:

- i. Determination of soil texture, indicating the percentage of organic matter;
 - ii. An approximate soil infiltration rate (either measured or derived from soil texture/infiltration rate tables). A range of infiltration rates should be noted where appropriate;
 - iii. Measure of pH, and total soluble salts.
- b. A mulch of at least three inches shall be applied to all planting areas except turf.

12. Certification.

- a. Upon completing the installation of the landscaping and the irrigation system, an irrigation audit shall be conducted by a certified landscape irrigation auditor prior to the final field observation. (See Landscape Irrigation Auditor Handbook as referenced in Section 13.32.040.)
- b. A licensed landscape architect or contractor, certified irrigation designer, or other licensed professional in a related field shall conduct a final field observation and shall provide a certificate of substantial completion to the city or county. The certificate shall specifically indicate that plants were installed as specified, that the irrigation system was installed as designed, and that an irrigation audit has been performed, along with a list of any observed deficiencies.
- c. Certification shall be accomplished by completing a certificate of substantial completion and delivering it to the city or county, to the retail water supplier, and to the owner of record. A sample of such a form, which shall be provided by the city or county is set out in Exhibit "B" following this chapter.
- D. PUBLIC EDUCATION—PUBLICATIONS. Local agencies shall provide information to owners of all new, single-family residential homes regarding the design, installation, and maintenance of water efficient landscapes.

Information about the efficient use of landscape water shall be provided to water users throughout the community. (Ord. 488 § 1, 1992)

13.32.040 Provisions for existing landscapes.

A. Water Management. All existing landscaped areas to which the city or county provides water that are one acre or more shall have a landscape irrigation audit at least every five years. At a minimum, the audit shall be in accordance with the California Landscape Water Management Program as described in the Landscape Irrigation Auditor Handbook, the entire document which is hereby incorporated by reference. (See Landscape Irrigation Auditor Handbook, Dept. of Water Resources, Water Conservation Office (June 1990) Version 5.5.)

- 1. If the project's water bills indicate that they are using less than or equal to the maximum applied water allowance for that project site, an audit shall not be required.
- 2. Recognition of projects that stay within the maximum applied water allowance is encouraged.

B. Water Waste Prevention. Cities and counties shall prevent water waste resulting from inefficient landscape irrigation by prohibiting runoff, low head drainage, overspray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways or structures. Penalties for violation of these prohibitions shall be established locally. (Ord. 488 § 1, 1992)

13.32.050 Effective precipitation.

SAMPLE CERTIFICATE OF SUBSTANTIAL COMPLETION

If effective precipitation is included in the calculation of the estimated total water use, an effective precipitation disclosure statement (similar to the sample Exhibit "C" set out following this chapter) shall be completed, signed, and submitted with the landscape documentation package. No more than twenty-five percent of the local annual mean precipitation shall be considered effective precipitation in the calculation of the estimated total water use. (Ord. 488 § 1, 1992)

EXHIBIT "A" SAMPLE WATER CONSERVATION CONCEPT STATEMENT

Project Site:

Project Number:

Project Location:

Landscape Architect/Irrigation Designer/Contractor:

Included in this project submittal package are:

(Check to indicate completion)

___ 1. Maximum Applied Water Allowance:
 ___ gallons or cubic feet/year

___ 2. Estimated Applied Water Use:
 ___ gallons or cubic feet/year

* ___ 2.(a) Estimated Amount of Water Expected from Effective Precipitation:
 ___ gallons or cubic feet/year

___ 3. Estimated Total Water Use:
 ___ gallons or cubic feet/year

Note: * If the design assumes that a part of the Estimated Total Water Use will be provided by precipitation, the Effective Precipitation Disclosure Statement in Section 704 shall be completed and submitted. The Estimated Amount of Water Expected from Effective Precipitation shall not exceed 25 percent of the local annual mean precipitation (average rainfall).

- ___ 4. Landscape Design Plan
- ___ 5. Irrigation Design Plan
- ___ 6. Irrigation Schedule
- ___ 7. Maintenance Schedule

- 8. Landscape Irrigation Audit Schedule
- 9. Grading Design Plan
- 10. Soil Analysis

Description of Project

(Briefly describe the planning and design actions that are intended to achieve conservation and efficiency in water use.)

Date: _____ Prepared By: _____

EXHIBIT "B" SAMPLE CERTIFICATE OF SUBSTANTIAL COMPLETION

Project Site/Number: _____

Project Location: _____

Preliminary Project Documentation Submitted (Check indicating submittal)

- 1. Maximum Applied Water Allowance:
 (gallons or cubic feet per year)
- 2. Estimated Applied Water Use:
 (gallons or cubic feet/year)
- *2a. Estimated Amount of Water Expected from Effective Precipitation:
 (gallons of cubic feet/year)
- 3. Estimated Total Water Use:
 (gallons of cubic feet/year)

NOTE: *If the design assumes that a part of the Estimated Total Water Use will be provided by precipitation, the Effective Precipitation Disclosure Statement shall be completed and submitted. The estimated Amount of Water Expected from Effective Precipitation shall not exceed 25 percent of the local annual mean precipitation (average rainfall).

- 4. Landscape Design Plan
- 5. Irrigation Design Plan
- 6. Irrigation Schedules
- 7. Maintenance Schedule
- 8. Landscape Irrigation Audit Schedule
- 9. Grading Design Plan
- 10. Soil Analysis

Post-Installation Inspection: (Check indicating substantial completion)

- A. Plants installed as specified
- B. Irrigation system installed as designed
 - B. dual distribution system for recycled water
 - B. minimal run off or overspray
- C. Landscape irrigation Audit performed

Project submittal package and a copy of this certification has been provided to owner/manager and local water agency.

Comments:

I/we certify that work has been installed in accordance with the contract documents.

Contractor

Signature

Date

License Number

I/we certify that based upon periodic site observations, the work has been substantially completed in accordance with the Water Efficient Landscape Ordinance and that the landscape planting and irrigation installation conform with the approved plans and specifications.

 Landscape Architect Signature
 or Irrigation Designer/Consultant
 or Licensed or Certified Professional in a Related Field

 Date State License Number

I/we certify that I/we have received all of the contract documents and that it is our responsibility to see that the project is maintained in accordance with the contract documents.

 Owner Signature

 Date

EXHIBIT "C" SAMPLE EFFECTIVE PRECIPITATION DISCLOSURE STATEMENT

I certify that I have informed the project owner and developer that this project depends on _____ (gallons or cubic feet) of effective precipitation per year. This represents _____ percent of the local mean precipitation of _____ inches per year.

I have based my assumptions about the amount of precipitation that is effective upon:

 I certify that I have informed the project owner and developer that in times of drought, there may not be enough water available to keep the entire landscape alive.

 Licensed or Certified Landscape Professional

I certify that I have been informed by the licensed or certified landscape professional that this project depends upon _____ (gallons or cubic feet) of effective precipitation per year. This represents _____ percent of the local mean precipitation of _____ inches per year.

I certify that I have been informed that in times of drought, there may not be enough water available to keep the entire landscape alive.

 Owner Developer

EXHIBIT "D" REFERENCE EVAPOTRANSPIRATION

(In inches—Historical Data, extrapolated from 12-month Normal Year ETo Maps and U.C. publication 21426)

SAN BERNARDINO COUNTY

City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann ETo.
Baker	2.7	3.9	6.1	8.3	10.4	11.8	12.2	11.0	8.9	6.1	3.3	2.1	86.6
Barstow	2.6	3.6	5.7	7.9	10.1	11.6	12.0	10.4	8.6	5.7	3.3	2.1	83.6
Chino	2.1	2.9	3.9	4.5	5.7	6.5	7.3	7.1	5.9	4.2	2.6	2.0	54.6
Crestline	1.5	1.9	3.3	4.4	5.5	6.6	7.8	7.1	5.4	3.5	2.2	1.6	50.8
Needles	3.2	4.2	6.6	8.9	11.0	12.4	12.8	11.0	8.9	6.6	4.0	2.7	92.1
Lucerne Valley	2.2	2.9	5.1	6.5	9.2	11.0	11.4	9.9	7.4	5.0	3.0	1.8	75.3

San Bernardino	2.0	2.7	3.8	4.6	5.7	6.9	7.9	7.4	5.9	4.2	2.6	2.0	55.6
29 Palms	2.6	3.6	5.9	7.9	10.1	11.2	11.2	10.3	8.6	5.9	3.4	2.2	82.9
Victorville	2.3	3.1	4.9	6.7	9.3	10.0	11.2	9.8	7.4	5.1	2.8	1.8	74.6

View the [mobile version](#).

Attachment 2: Adoption Resolution

RESOLUTION NO. 3107

RESOLUTION OF THE CITY OF LOMA LINDA CITY COUNCIL
ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a water shortage contingency plan (WSCP); and

WHEREAS, City of Loma Linda meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, The City of Loma Linda has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the City of Loma Linda's Water Conservation Ordinance No. 443 adopted on January 22, 1991 and

WHEREAS, in accordance with the UWMP Act, the City of Loma Linda has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the City of Loma Linda's WSCP was published within the jurisdiction of the City of Loma Linda on June 15, 2021 and June 22, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 29, 2021 at 7:00 p.m., or soon thereafter, in the City Council Chambers of the offices of the City of Loma Linda, 25541 Barton Road, Loma Linda, CA 92354 in order to provide members of the public and other interested

entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, the City of Loma Linda, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within City of Loma Linda's service area with regard to the preparation of the WSCP, encouraged community input regarding City of Loma Linda's WSCP; and

WHEREAS, the City Council has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

WHEREAS, the City Council desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, the City Council of the City of Loma Linda hereby resolve as follows:

1. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the City Council as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the City Council ;

2. The City Manager is hereby authorized and directed to include a copy of this Resolution in City of Loma Linda's WSCP;

3. The City Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;

4. The City Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city of county within which the City of Loma Linda provides water supplies no later than thirty (30) days after this adoption date;

5. The City Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at The City of Loma Linda's offices during normal business hours and on The City of Loma Linda's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;

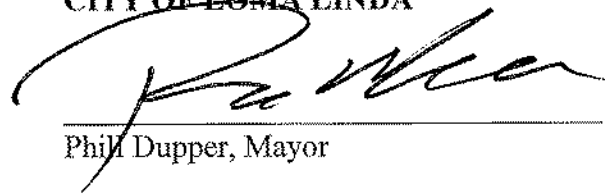
6. The City Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which The City of Loma Linda provides water supplies no

later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;

7. The City Manager is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the City Council regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

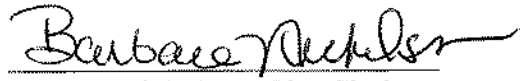
APPROVED AND ADOPTED this 29th day of June 2021.

**CITY COUNCIL OF THE
CITY OF LOMA LINDA**



Phil Dupper, Mayor

ATTEST:



Barbara Nicholson, City Clerk

STATE OF CALIFORNIA)
COUNTY OF SAN BERNARDINO) ss.
CITY OF LOMA LINDA)

I, Barbara Nicholson, City Clerk of the City of Loma Linda, hereby certify that the foregoing resolution was duly adopted by the City Council at its regular meeting held on the 29th day of June, 2021, and that it was so adopted by the following vote:

AYES: Dupper, Dailey, Lenart, Jindal
NOES: None
ABSENT: Rigsby
ABSTAIN: None

Barbara Nicholson
City Clerk

D

2020 IRUWMP Part 4
City of Redlands
Appendix D



D-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 4 Part 1 Chapter 3
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	Part 2 Chapter 4 Executive Summary
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	Part 2 Chapter 4
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	Part 1 Chapter 1
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	Part 4 Appendix D-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 4 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 4 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 4 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 2 Chapter 4 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 4 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 4 Section 2.2.2
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	Part 2 Chapter 4 Section 2.3.1
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	Part 2 Chapter 4 Section 2.3
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	Part 2 Chapter 4 Section 2.2.2
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	Part 2 Chapter 4 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 4 Section 2.5 Part 1 Chapter 5
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	Part 2 Chapter 4 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 4 Section 3.2
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
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	N/A
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	Part 4 Appendix D-7
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	Part 4 Appendix D-7
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	Part 2 Chapter 4 Section 4 Part 2 Chapter 4 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 4 Section 4 Part 2 Chapter 4 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 4 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 4 Section 4.6.2 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 4 Section 4.7 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 4 Section 4.2
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	Part 2 Chapter 4 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 4 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 4 Section 4.2
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	Part 2 Chapter 4 Section 4.7
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	Part 2 Chapter 4 Section 4.6
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)	Part 2 Chapter 4 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 4 Section 4.5.1
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)	Part 2 Chapter 4 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 4 Section 4.7 Part 1 Chapter 3
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 4 Section 4.5
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	Part 2 Chapter 4 Section 4.6.2 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 4 Section 4.8 Part 4 Appendix D-6
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	Water Supply Reliability Assessment	Part 2 Chapter 4 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 4 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 4 Section 6
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	Part 2 Chapter 4 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 4 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 4 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 4 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix D-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix D-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix D-9 Section 10.0
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	Part 4 Appendix D-9 Section 2.0
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	Part 4 Appendix D-9 Section 2.0
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	Part 4 Appendix D-9 Section 3.0
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	Part 4 Appendix D-9 Section 3.0
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	Part 4 Appendix D-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix D-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix D-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix D-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix D-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix D-9 Section 4.4&4.5
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	Part 4 Appendix D-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix D-9 Section 5.0
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	Part 4 Appendix D-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix D-9 Section 7.0
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	Part 4 Appendix D-9 Section 7.1
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	Part 4 Appendix D-9 Section 7.2
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	Part 4 Appendix D-9 Section 8.0
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	Part 4 Appendix D-9 Section 8.0
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	Part 4 Appendix D-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix D-9 Section 9.0
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	Part 4 Appendix D-9 Section 4.0
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	Part 4 Appendix D-9 Section 11.0
Section 8.14	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	Part 4 Appendix D-9 Section 11.0
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
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	Part 2 Chapter 4 Section 8
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	Part 2 Chapter 4 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 4 Section 9 Part 4 Appendix D-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9 Part 4 Appendix D-2 Public Outreach
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 4 Section 9
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	Part 2 Chapter 4 Section 9

D-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

PROOF OF PUBLICATION
(2015.5 C.C.P.)

(Space below for stamp only)

RECEIVED
JUN 09 2021

Redlands City Clerk

STATE OF CALIFORNIA
County of San Bernardino
ss.

Proof of Publication of

The undersigned hereby certifies as follows:

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of twenty-one years, and not a party to or interested in the above entitled matter. I am the principal clerk of the printer of the Redlands Daily Facts, a newspaper of general circulation, published daily in the City of Redlands, County of San Bernardino, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of San Bernardino, State of California, under the date of October 10, 1927, Case Number 26980; that the notice, of which the annexed is a true printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on each of the following dates, to-wit:

6/1, 6/8

all in the year 2021.

I certify under the penalty of perjury that the foregoing is true and correct:

Pamela S. Harris
Signature

Executed on the 8 day of June 2021
at Redlands, in the County of San Bernardino,
State of California.

**City of Redlands
Public Hearing Notice**

**2020 Upper Santa Ana River
Watershed Integrated Regional
Urban Water Management Plan**

Notice is hereby given that on June 15, 2021, at 6:00 P.M. or as soon thereafter as may be heard, the City Council of the City of Redlands will conduct a public hearing to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan ("2020 IRUWMP"). Following the public hearing, the City Council of the City of Redlands may adopt the Draft 2020 IRUWMP with recommended modifications, if any, as a result of public input.

The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents the City of Redlands' plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages.

Said public hearing will be held in the City Council Chambers, Civic Center, 35 Cajon Street, Redlands, California. City Council meetings are closed to the public until further notice or until the current local State of Emergency has been lifted.

Public participation in the meetings is still encouraged. The public may view the meetings live at home through Redlands TV, on Channel 3 for Spectrum cable customers or Channel 35 for Frontier cable customers, or online at <https://www.cityofredlands.org/meeting-agendas-minutes>.

Members of the public who wish to provide general comment to the City Council or comment on specific agenda items may submit comments up until 5:00 p.m. the day before the City Council meeting by email at publiccomments@cityofredlands.org or through the public comment form on the City's website at <https://www.cityofredlands.org/public-speaker-form>. Written comments may also be provided by 5:00 p.m. the day before the City Council meeting directly to the City Clerk's Office at 35 Cajon Street. Comments received by the deadline will be read into the public record at the meeting.

A copy of the Draft 2020 IRUWMP will be available for public review beginning in May 2021 and can be downloaded at cityofredlands.org/waterandwastewater or viewed at the following City locations: Municipal Utilities and Engineering Department: 35 Cajon Street, Suite 15A, Redlands 92373 or City Clerk's office: 35 Cajon Street, Suite 4, Redlands 92373

If you have any questions regarding the Draft 2020 IRUWMP or public hearing meeting, please contact Cecilia Griego at 909-798-7553 or cgriego@cityofredlands.org. Please contact the City of Redlands if you require special accommodations.

*/s/ Jeanne Donaldson, City Clerk
City of Redlands, California
Redlands Daily Facts 6/1, 6/8/2021*

PROOF OF PUBLICATION

(2015.5 C.C.P.)

(Space below for stamp only)

RECEIVED

JUN 09 2021

Redlands City Clerk

STATE OF CALIFORNIA
County of San Bernardino
ss.

Proof of Publication of

The undersigned hereby certifies as follows:

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of twenty-one years, and not a party to or interested in the above entitled matter. I am the principal clerk of the printer of the Redlands Daily Facts, a newspaper of general circulation, published daily in the City of Redlands, County of San Bernardino, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of San Bernardino, State of California, under the date of October 10, 1927, Case Number 26980; that the notice, of which the annexed is a true printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on each of the following dates, to-wit:

6/1, 6/8

all in the year 2021.

I certify under the penalty of perjury that the foregoing is true and correct:

Pamela S. Harris
Signature

Executed on the 8 day of June 2021
at Redlands, in the County of San Bernardino,
State of California.

City of Redlands
Public Hearing Notice
Water Shortage Contingency Plan

Notice is hereby given that on June 15, 2021 at 6:00 P.M. or as soon thereafter as may be heard, the City Council of the City of Redlands will conduct a public hearing to receive public comments and consider adoption of the City of Redlands' Draft Water Shortage Contingency Plan ("WSCP"). Following the public hearing, the City Council of the City of Redlands may adopt the Draft WSCP with recommended modifications, if any, as a result of public input.

The Draft WSCP documents the City of Redlands' plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies.

Said public hearing will be held in the City Council Chambers, Civic Center, 35 Colon Street, Redlands, California. City Council meetings are closed to the public until further notice or until the current local State of Emergency has been lifted.

Public participation in the meetings is still encouraged. The public may view the meetings live at home through Redlands TV, on Channel 3 for Spectrum cable customers or Channel 35 for Frontier cable customers, or online at <https://www.cityofredlands.org/meeting-agendas-minutes>.

Members of the public who wish to provide general comment to the City Council or comment on specific agenda items may submit comments up until 5:00 p.m. the day before the City Council meeting by email at publiccomments@cityofredlands.org or through the public comment form on the City's website at <https://www.cityofredlands.org/public-speaker-form>. Written comments may also be provided by 5:00 p.m. the day before the City Council meeting directly to the City Clerk's Office at 35 Colon Street. Comments received by the deadline will be read into the public record at the meeting.

A copy of the Draft WSCP will be available for public review beginning in May 2021 and can be downloaded at cityofredlands.org/waterandwastewater or viewed at the following City locations: Municipal Utilities and Engineering Department: 35 Colon Street, Suite 15A, Redlands 92373 or City Clerk's office: 35 Colon Street, Suite 4, Redlands 92373

If you have any questions regarding City of Redlands' WSCP or public hearing meeting, please contact Cecilia Griego at 909-798-7553 or cgriego@cityofredlands.org. Please contact the City of Redlands if you require special accommodations.

/s/ Jeanne Donaldson, City Clerk
City of Redlands, California
Redlands Daily Facts 6/1, 6/8/2021

D-3: Resolutions

RESOLUTION NO. 8226

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF REDLANDS
ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED
INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN

WHEREAS, the City of Redlands and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, storm water management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan ("IRWMP") to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the City of Redlands participated in the development of the 2007 and 2015 IRWMPs and adopted the 2007 and 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources ("DWR") has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 ("2016 IRWM Guidelines"); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. ("UWMP Act"), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan ("UWMP"); and

WHEREAS, City of Redlands meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP

(RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the UWMP Act; and

WHEREAS, the City of Redlands participated in the 2010 and 2015 RUWMP; and

WHEREAS, both the IRWMP and RUWMP are both due to be updated; and

WHEREAS, the City of Redlands and nineteen other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 – Individual Agency Supporting Information; and

WHEREAS, as a participant in the 2020 IRUWMP, the City of Redlands has prepared those portions of the IRUWMP applicable to the City of Redlands to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include Part 1, Part 2 Chapter 4: City of Redlands’ UWMP, Part 3, and Part 4-Appendix D: City of Redlands’ Supporting Information; and

WHEREAS, in accordance with applicable legal requirements, the City of Redlands has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and

WHEREAS, in accordance with the UWMP Act, the City of Redlands has prepared the 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding the City of Redlands’ adoption of Part 1, Part 2-Chapter 4, Part 3 and Part 4-Appendix D of the 2020 IRUWMP was published within the jurisdiction of the City of Redlands on June 1, 2021, and June 8, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 15, 2021, at 6:00 P.M., or soon thereafter, in order to provide members of the public and other interested entities with the

opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, the City of Redlands, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the City of Redlands' service area with regard to the preparation of the Plan, and encouraged community input regarding the 2020 IRUWMP; and

WHEREAS, the City Council has reviewed and considered the purposes and requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and

WHEREAS, the City Council desires to adopt Part 1, Part 2-Chapter 4, Part 3 and Part 4-Appendix D of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF REDLANDS AS FOLLOWS:

Section 1. The City Council hereby finds and determines that the adoption of this Resolution is exempt from review and under the California Environmental Quality Act Guidelines Section 15061(b)(3) because it can be seen with certainty that this Urban Water Management Plan will have no significant impact on the environment.

Section 2. Part 1, Part 2-Chapter 4, Part 3 and Part 4-Appendix D of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the City Council as a result of input received (if any) at the public hearing and ordered filed with the Clerk of the City Council.

Section 3. The Municipal Utilities and Engineering Department Director ("MUED Director") is hereby authorized and directed to include a copy of this Resolution in the 2020 IRUWMP.

Section 4. The MUED Director is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the City of Redlands' portions of the 2020 IRUWMP to DWR no later than July 1, 2021.

Section 5. The MUED Director is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which the City of Redlands provides water supplies no later than thirty (30) days after this adoption date.

Section 6. The MUED Director is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at the City of Redlands' offices during normal business hours and on the City of Redlands' website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR.

Section 7. The MUED Director is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which the City of Redlands provides water supplies no later than sixty (60) days after submitting a copy to DWR.

Section 8. The MUED Director is hereby authorized and directed to implement the 2020 IRUWMP in accordance with the IRWM Act and UWMP Act and to provide recommendations to the City Council regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

ADOPTED, SIGNED AND APPROVED this 15th day of June, 2021.



Paul T. Barich, Mayor

ATTEST:



Jeanne Donaldson, City Clerk

I, Jeanne Donaldson, City Clerk of the City of Redlands, hereby certify that the foregoing resolution was duly adopted by the City Council at a regular meeting thereof held on the 15th day of June, 2021

AYES: Councilmembers Tejada, Davis, Guzman-Lowry; Mayor Barich
NOES: None
ABSENT: Councilmember Foster
ABSTAINED: None



Jeanne Donaldson, City Clerk

D-4: Agreements

MUTUAL AID STANDBY WATER AGREEMENT
BETWEEN THE CITY OF REDLANDS
AND THE CITY OF LOMA LINDA

This Agreement is made and entered this 15th day of September, 1987, by and between the CITY OF REDLANDS, a Municipal Corporation, hereinafter referred to as "Redlands," and the CITY OF LOMA LINDA, a Municipal Corporation, hereinafter referred to as "Loma Linda."

RECITALS

WHEREAS, it is to the mutual advantage and in the best interests of Redlands and Loma Linda, both operating water utilities, so far as their mains, service requirements to existing customers, supply, and situations permit, to have a mutual aid standby water agreement whereby in case of emergencies, either can avail itself of the emergency water standby service of the other for the benefit of their respective consumers; and

WHEREAS, Redlands and Loma Linda desire to enter into such a mutual aid standby water agreement to serve one another during emergencies on the terms and conditions hereinafter set forth;

NOW, THEREFORE, it is agreed by and between the Cities of Redlands and Loma Linda as follows:

AGREEMENT

1. Emergency. An emergency shall mean any unforeseen circumstance or combination of circumstances such as the inability to pump due to loss of power, broken water mains, a major fire, earthquake or such other occurrence which results in the inability of either Redlands or Loma Linda to provide water service to a portion of their respective water systems.

2. Obligations of Redlands.

A. Redlands shall maintain in good working order and operational condition, an existing eight (8) inch standby water service located on the west side of Mt. View Avenue, north of Redlands Boulevard for temporary use by Loma Linda during emergencies which arise in the Loma Linda water system. Such emergency service shall be provided by Redlands to Loma Linda to the extent that Redlands' water mains, pressure, and existing services will permit, with due regard to the rights of the water consumers of Redlands first being met.

B. The existing Redlands eight (8) inch standby water service connection and the double check valve backflow prevention assembly now in service near the intersection of Redlands Boulevard and Mt. View Avenue shall remain in the system of Redlands for use by Loma Linda for standby emergency water service as long as such connection and assembly are useful and necessary to the Redlands water

system. Said connection was installed by Redlands and shall remain the property of Redlands.

3. Obligations of Loma Linda

A. Loma Linda shall furnish and maintain in good working order and operational condition, a six (6) inch standby water service to Redlands for temporary use by Redlands during emergencies which arise in the Redlands' water system. Such emergency service shall be provided by Loma Linda to Redlands to the extent that Loma Linda water mains, pressure, and existing services will permit, with due regard to the rights of the water consumers of Loma Linda first being met.

B. This six (6) inch standby water service with meter and backflow prevention assembly shall be installed by Loma Linda at the Redlands connection near the intersection of Redlands Boulevard and Mt. View Avenue. Prior to determining the exact location of this service connection, the City of Loma Linda will consult with the City of Redlands and receive its input. The six (6) inch meter, double check valve backflow preventor and valves shall be furnished, installed, and maintained in good working order and operational condition by and at the expense of Loma Linda. The six (6) inch piping and connection to Loma Linda's present system and the six (6) inch meter, double check backflow preventor and gate valves shall remain the property of Loma Linda.

4. Payment for Emergency Water Service. Each City shall pay the other for emergency water which it

receives at the time of receipt of such water and at the rate equal to the other City's production cost.

5. Requests for Service. Each City shall provide to the other the name, address, telephone numbers and title of each person authorized to respond to a request for emergency water service under this Agreement. Detailed procedures shall be determined by each City's water utility department regarding requests and responses, maximum and minimum delivery pressures, maximum flow rates, water quality at time of delivery, notifications and any other operational considerations affecting this Agreement.

6. At such time as the six (6) inch emergency standby by-pass contemplated in Section 3 for Redlands is in service, Loma Linda shall cease paying Redlands the bi-monthly rate for the existing standby water service. Redlands shall not be obligated to pay any standby charges to Loma Linda.

7. Interest in Water Systems. No claim, right, title or interest in water supplied under this Agreement, other than the contractual interest established in this Agreement, shall be acquired by either City in the other's water or water system.

8. Indemnification. Redlands shall defend, indemnify and hold harmless Loma Linda, its elected officials and employees, from and against all claims, liens, encumbrances, actions, loss, damages, causes of action,

expense and liability, including court costs and attorneys' fees arising out of or resulting from the negligent acts or omissions of Redlands, its elected officials and employees in the performance of this agreement. Loma Linda shall defend, indemnify and hold harmless Redlands, its elected officials and employees, from and against all claims, liens, encumbrances, actions, loss, damages, causes of action, expense and liability, including court costs and attorneys' fees, arising out of or resulting from the negligent acts or omissions of Loma Linda, its elected officials and employees in the performance of this agreement.

9. Successors and Assigns/Termination. This agreement shall be binding upon the successors and assigns of the parties hereto and shall remain in effect indefinitely; provided, however, either party may terminate this agreement by providing the other party with six (6) months' prior written notice of such party's intention to terminate this agreement.

10. Termination of Prior Agreements. The agreement dated June 9, 1975 between Redlands and Loma Linda relating to water service shall terminate upon execution of this Agreement.

11. Assignment. This Agreement shall not be assigned, conveyed or hypothecated without the mutual consent of the parties hereto.

12. Attorney's Fees. In the event any legal

action is commenced to enforce or interpret the terms or conditions of this Agreement the prevailing party shall, in addition to any costs and other relief, be entitled to recover its reasonable attorney's fees.

IN WITNESS WHEREOF, the parties hereto have caused their corporate names to be subscribed hereto by their officers, upon authorization of their respective City Councils, and have caused their corporate seals to be affixed this 16th day of September, 1987.

By: Carole Desovich
Mayor, City of Redlands

ATTEST:

Dorise Payne
City Clerk, City of Redlands

By: [Signature]
Mayor, City of Loma Linda

ATTEST:

Patricia Bynnes-O'Connell
City Clerk, City of Loma Linda

**AGREEMENT BETWEEN
THE CITY OF REDLANDS AND WESTERN HEIGHTS WATER COMPANY FOR
POTABLE WATER SYSTEM INTERCONNECTION**

This AGREEMENT is made and entered into this 18th day of April, 2017, by and between the City of Redlands (hereinafter referred to as REDLANDS) and the Western Heights Water Company (hereinafter referred to as COMPANY), sometimes individually referred to as a PARTY and, collectively referred to as the PARTIES.

1. PURPOSE

a. The Parties have determined that an interconnection between potable water systems (the "Interconnection") would be of mutual benefit and improve system reliability during an emergency situation. This agreement sets forth the term for the construction and operation of such an Interconnection. This agreement does not provide for sustained use of the Interconnection as a source of supply outside of an emergency situation, without written approval for such sustained use from the State Water Resources Control Board.

2. DESIGN AND CONSTRUCTION

a. Project design plans have been supplied by REDLANDS at no cost to COMPANY.

b. COMPANY shall construct the Interconnection in accordance with the REDLANDS design shown in Exhibit "A." COMPANY shall invoice REDLANDS monthly for the cost of construction of those portions of the project attributed to REDLANDS as delineated in Exhibit "B." REDLANDS shall reimburse COMPANY within 30 days of receiving and approving COMPANY invoice.

c. If necessary, the Parties shall share the cost of additional design and construction of the Interconnection based on the needs of each Party, and based on the Party receiving the addition as delineated in Exhibit "B".

3. OWNERSHIP OF FACILITIES

a. Each Party shall own, operate, and maintain the pipelines and related improvements located on its side of the Interconnection.

4. TERMS OF USE

a. Availability of Water

i. Each Party will provide water to the other Party through the Interconnection during nonrecurring events and emergencies and when hydraulic conditions permit the other Party to receive water. There is no guarantee of any particular flow under any circumstance, however if delivery capacity is available, each Party will make its best efforts to provide water to the other Party and when requested to do so. At the discretion of the delivering Party, water delivered through the Interconnection may be stopped at any time, even during an emergency event, when

continued delivery would jeopardize the delivering Party's systems, water supply, or ability to meet the demands of the delivering Party's customers.

ii. To accommodate emergencies situations, which may occur without warning, all valves on both sides of the Interconnection shall be set to allow water to flow to either Party automatically during conditions when water pressure drops to levels substantially below normal. Once the party experiencing the emergency becomes aware of the use of the Interconnection they will immediately notify the supplying Party of the estimated flow and duration of the emergency. The receiving Party shall keep the delivering Party aware of changes to conditions.

iii. Where outages are known beforehand, the Party requesting water will do so in writing (e-mail is acceptable) to a Party designated employee of the providing Party. The written request shall include the requested flow rate, desired start time, and estimated duration of the delivery. The providing Party will confirm in writing (e-mail is acceptable) delivered to the requesting Party the estimated availability of the requested flow.

b. Costs and Metering

i. REDLANDS is an existing customer of COMPANY and water received by REDLANDS through the Interconnection shall be billed to the existing Oakmont Park account at COMPANY's then current regular rates. Water received by COMPANY shall be billed at REDLANDS then current regular rate. It shall be the responsibility of each Party to monitor their respective water meters and bill the receiving party within sixty (60) days of any water transfer. Bills shall be paid by the receiving Party within 30 days of receipt of bill.

ii. Each Party shall calibrate and test all metering components a minimum of once annually, providing a copy of the associated test and calibration report to the other Party, to confirm accuracy of plus or minus two percent ($\pm 2.0\%$). If the calibration discloses an error exceeding plus or minus two percent ($\pm 2.0\%$), an adjustment shall be made in metered charges, covering the known or estimated amount up to a six month period. Each Party shall be authorized to independently test the other Party's meter for verification purposes upon request, said testing shall be at the requesting Party's expense.

c. No Liability. Neither Party shall be responsible or liable to the other Party, or to any other person or entity, for any loss, liability, damage, claim, or other consequences resulting from any failure to provide water pursuant to this Agreement or any interruption or suspension of water delivery to the other Party pursuant to this Agreement.

d. No Warranty. Subject to each Party's obligation to comply with applicable law as provided herein, neither Party represents nor warrants the quality, quantity, or flow rate of any water available at any time through the Interconnection. The requesting Party shall be responsible for verifying, to its satisfaction, the quality of water entering its system and ensuring that the integration of such water with its system does not cause any water quality issues. If either Party becomes aware that the water provided by such Party fails to comply with the State Water Resources Control Board Division of Drinking Water potable water regulations and requirements, it shall immediately notify the other Party.

e. Compliance with Laws. Each Party is responsible for obtaining and maintaining all required permits and complying with all applicable laws, rules, and regulations relating to the construction, maintenance, repair, ownership, operation, and maintenance of the Interconnection facilities for which that Party is responsible as set forth in this Agreement.

f. Protection of Facilities. If any occurrence or condition during operation, maintenance, or repair of the Interconnection threatens, in the reasonable judgment of a Party (the "Affected Party"), the integrity or operational capacity of the Affected Party's facilities, the Affected Party may suspend operation, maintenance, or repair of the Interconnection or take such other action as the Affected Party deems reasonably necessary to protect its facilities.

g. Notice. The Affected Party shall give as much notice as reasonably possible to the other Party of the action taken or proposed to be taken.

h. Indemnity. Each PARTY shall defend, indemnify and hold harmless the other PARTY from and against any claim of liability, damages, costs or loss, including costs and attorneys' fees, from personal injury or death to persons, or property damage (collectively "Claims") resulting from or arising out of the negligence or willful misconduct of the indemnifying PARTY, or its elected officials, employees, contractors or agents, except to the extent such Claims may be caused by or result from the negligence or willful misconduct of the other PARTY, or its elected officials, employees, contractors or agents. Further, COMPANY shall require its contractors to defend, indemnify and hold harmless REDLANDS and its elected officials, employees and agents from and against any and all claims, losses or liability, including costs and attorneys' fees, arising from injury or death to persons or damage to property occasioned by or resulting from any negligent act, omission or failure to act, or willful misconduct by any contractor or its officers, employees and agents in constructing the Interconnection. Notwithstanding the foregoing, this obligation to indemnify shall not apply to any loss, liability, damage, claim, or other consequences resulting from any failure to provide water pursuant to this Agreement or any interruption or suspension of water delivery to the other Party pursuant to this Agreement as provided in Section 4.3, above.

5. NOTIFICATION

- a. Any notice, demand, or request to be given under or pursuant to this Agreement shall be given in writing at the physical addresses set forth below by personal service; overnight courier; or registered or certified, first class mail, return receipt requested:

If to REDLANDS: Chris Diggs, Municipal Utilities & Engineering Director, 35 Cajon Street, Suite 15A, Redlands, CA 92373.

If to COMPANY:

E-mail is also an acceptable means of notification, if provided to the current e-mail address of the appropriate manager. Each Party is responsible for keeping the other Party apprised of any change to such Party's contact information.

6. TERM AND TERMINATION

a. This Agreement shall commence on the date first above written and shall continue unless and until terminated as follows:

i. Seven days after written notice is provided to either Party.

ii. Either Party may terminate this Agreement for cause if the other Party defaults on any material obligation under this Agreement and such default continues for a period of thirty (30) days after written notice of such default is delivered.

b. Upon termination of this Agreement, all amounts due and owing by either Party to the other shall be paid in full within thirty (30) days of the termination date, and all other rights and obligations of the Parties shall terminate, except that each Party shall retain ownership and responsibility for its own improvements as provided in this Agreement. Upon termination, the intertie shall be closed.

IN WITNESS WHEREOF, the Parties have executed this Agreement by their duly authorized representatives as of the Effective Date.

City of Redlands

Western Heights Water Company

By: 
PAUL W. FOSTER
Mayor

By: 
NAME
Title

Date: 4/19/17

Date: 4-21-17

APPROVED AS TO FORM AND PROCEDURE:

APPROVED AS TO FORM AND PROCEDURE:

By: 
DANIEL J. McHUGH
City Attorney

By: _____
NAME
Title

Date: 4/19/17

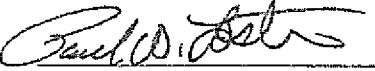
Date: _____


ATTEST: 
Jeanne Donaldson, City Clerk

IN WITNESS WHEREOF, the Parties have executed this Agreement by their duly authorized representatives as of the Effective Date.

City of Redlands

Western Heights Water Company

By: 
PAUL W. FOSTER
Mayor


By: 
NAME
Title

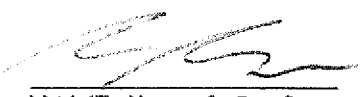
Date: 4/19/17

Date: 4-21-17

APPROVED AS TO FORM AND PROCEDURE:

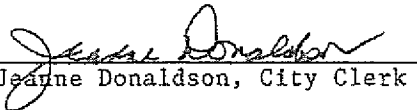
APPROVED AS TO FORM AND PROCEDURE:

By: 
DANIEL J. McHUGH
City Attorney

By: 
NAME Manuel D. Serpa
Title Counsel for Western Heights
Water Company

Date: 4/19/17

Date: 4/21/17

ATTEST: 
Jeanne Donaldson, City Clerk

D-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information			
Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	Redlands City Of	8499646842	3/17/2021 12:39:47 PM

Boundary Information		
Census Year	Boundary Filename	Internal Boundary ID
1990	Redlands City.kml	683
2000	Redlands City.kml	683
2010	Redlands City.kml	683
1990	Redlands City.kml	683
2000	Redlands City.kml	683
2010	Redlands City.kml	683
1990	Redlands City.kml	683
2000	Redlands City.kml	683
2010	Redlands City.kml	683

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period:

Year beginning baseline period range:

Year ending baseline period range¹: 2008

5-year baseline period

Year beginning baseline period range:

Year ending baseline period range²: 2007

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons-Per-SF Connection and Persons-Per-MF/GQ Connection

Year	Census Block Group Level	Census Block Level			# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection
	% Population in SF Housing	Service Area Population	Population in SF Housing (calculated)	Population in MF/GQ Housing (calculated)				
1990	73.14%	68,069	49,783	18,286	<input type="text"/>	<input type="text"/>	2.84	21.92
1991	-	-	-	-	-	-	2.84	21.92
1992	-	-	-	-	-	-	2.84	21.92
1993	-	-	-	-	-	-	2.84	21.92
1994	-	-	-	-	-	-	2.84	21.92
1995	-	-	-	-	-	-	2.84	21.92
1996	-	-	-	-	-	-	2.84	21.92
1997	-	-	-	-	-	-	2.84	21.92
1998	-	-	-	-	-	-	2.84	21.92
1999	-	-	-	-	-	-	2.84	21.92
2000	73.11%	70,678	51,674	19,004	<input type="text"/>	<input type="text"/>	2.84	21.92
2001	-	-	-	-	-	-	2.84	21.92
2002	-	-	-	-	-	-	2.84	21.92
2003	-	-	-	-	-	-	2.84	21.92
2004	-	-	-	-	-	-	2.84	21.92
2005	-	-	-	-	-	-	2.84	21.92
2006	-	-	-	-	-	-	2.84	21.92
2007	-	-	-	-	-	-	2.84	21.92
2008	-	-	-	-	-	-	2.84	21.92
2009	-	-	-	-	-	-	2.84	21.92
2010	72.55%	76,426	55,444	20,982	<input type="text" value="19527"/>	<input type="text" value="957"/>	2.84	21.92
2011	-	-	-	-	-	-	2.84	21.92
2012	-	-	-	-	-	-	2.84	21.92
2013	-	-	-	-	-	-	2.84	21.92
2014	-	-	-	-	-	-	2.84	21.92
2015	-	-	-	-	-	-	2.84	21.92
2020	-	-	-	-	-	-	2.84 *	21.92 *

Population Using Persons-Per-SF Connection and Persons-Per-MF/GQ Connection

Year		# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection	SF Population	MF/GQ Population	Total Population
10 to 15 Year Baseline Population Calculations								
Year 1	1999	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 2	2000	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 3	2001	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 4	2002	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 5	2003	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 6	2004	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 7	2005	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 8	2006	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 9	2007	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 10	2008	<input type="text"/>	<input type="text"/>	2.84	21.92			
5 Year Baseline Population Calculations								
Year 1	2003	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 2	2004	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 3	2005	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 4	2006	<input type="text"/>	<input type="text"/>	2.84	21.92			
Year 5	2007	<input type="text"/>	<input type="text"/>	2.84	21.92			
2020 Compliance Year Population Calculations								
2020		<input type="text" value="19922"/>	<input type="text" value="980"/>	2.84 *	21.92 *	56,566	21,486	78,052

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QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELO QUESTIONS / ISSUES? CONTACT THE MWELO HELP DESK

D-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610037	REDLANDS CITY MUD-WATER DIV	23,692	25,892
Total:		23,692	25,892

2-2 | Public Water Systems

STATUS: Published

NOTES: -

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS: Published

NOTES: -

Wholesale Water Supplier Name
San Bernardino Valley Municipal Water District

3-1R | Current & Projected Population

STATUS:

NOTES: -

Population Served	2020	2025	2030	2035	2040	2045
Total	78,052	81,367	84,822	88,424	91,727	95,153
Total	78,052	81,367	84,822	88,424	91,727	95,153

4-1R | Actual Demands for Water

STATUS:

NOTES: -

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Single Family	Drinking Water	12,949
Multi-Family	Multi-Family	Drinking Water	2,901
Commercial	Commercial/Institutional	Drinking Water	2,640
Landscape	Landscape	Drinking Water	2,220
Agricultural irrigation	Agricultural Irrigation	Drinking Water	276
Other	Other	Drinking Water	151
Commercial	Commercial/Institutional	Raw Water	158
Landscape	Landscape	Raw Water	1,267
Agricultural irrigation	Agricultural Irrigation	Raw Water	4
Losses	Nonrevenue	Drinking Water	3,327
Total:			25,892

4-2R | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Single Family	12,943	13,470	13,997	14,461	14,925
Multi-Family	Multi-Family	3,036	3,160	3,284	3,393	3,501
Commercial	Commercial/Institutional	3,081	3,145	3,209	3,265	3,321
Landscape	Landscape	2,292	2,385	2,478	2,560	2,643
Agricultural irrigation	Agricultural Irrigation	206	206	206	206	206
Other	Other	206	214	223	230	238
Commercial	Commercial/Institutional	248	319	391	454	517
Landscape	Landscape	1,451	1,510	1,569	1,621	1,673
Agricultural irrigation	Agricultural Irrigation	9	9	9	9	9
Losses	Nonrevenue	2,347	2,442	2,537	2,620	2,703
Total:		25,818	26,860	27,902	28,818	29,735

4-3R | Total Gross Water Use

STATUS: Published

NOTES: -

	2020	2020	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	25,892	25,818	26,860	27,902	28,818	29,735
Recycled Water Demand* From Table 6-4R	994	1,173	1,173	1,173	1,173	1,173
Total Water Use:	26,886	26,991	28,033	29,075	29,991	30,908

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES: -

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	1,977
1	2017	1,637
1	2018	790
1	2019	2,003
1	2020	3,327 (estimated)

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES: -

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS:

NOTES: -

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	1999	2008	356	285
5 Year	2003	2007	355	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
279	0	0	0	0	0	0	Yes

*All values are in Gallons per Capita per Day (GPCD)

6-1R | Groundwater Volume Pumped

STATUS: Published

NOTES: Bunker Hill pumping includes both potable and non-potable production

Select One						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Bunker Hill (part of SBBA)	11,442	13,512	14,466	11,434	13,619
Alluvial Basin	Yucaipa	59	16	20	246	297
Total:		11,501	13,528	14,486	11,680	13,916

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Percentage of 2020 service area covered by wastewater collection system (optional):						97%
Percentage of 2020 service area population covered by wastewater collection system (optional):						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
Redlands Wastewater Treatment Facility	Metered	6,421	City of Redlands	Redlands WWTP	Yes	No
Total:		6,421				

6-3R | Wastewater Treatment & Discharge Within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Plant Treats Wastewater Generated Outside the Service Area	Treatment Level	2020 Volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Redlands Wastewater Treatment Facility	Spreading Basins	8 basins located 1,100 ft east of WWTP		Percolation ponds	Yes	Secondary, Disinfected - 23	6,620	3,813	1,806	-	-
Total:							6,620	3,813	1,806	-	-

Discharged Treated Wastewater is treated to Secondary Disinfected-23 standards, but Recycled Water used within the service area is treated to Tertiary standards.

6-5R | 2015 Recycled Water Use Projection Compared to 2020 Actual

STATUS: Published

NOTES: -

The supplier will complete the table.

Use Type	2015 Projection for 2020	2020 Actual Use
Agricultural Irrigation	-	-
Landscape Irrigation (excludes golf courses)	-	-
Golf Course Irrigation	-	-
Commercial Use	-	-
Industrial Use	3,858	994
Geothermal and Other Energy Production	-	-
Seawater Intrusion Barrier	-	-
Recreational Impoundment	-	-
Wetlands or Wildlife Habitat	-	-
Groundwater Recharge (IPR)*	-	-
Surface Water Augmentation (IPR)*	-	-
Direct Potable Reuse	-	-
Total:	3,858	994

6-6R | Methods to Expand Future Recycled Water Use

STATUS:

NOTES:

The supplier will complete the table below.			
Name of Action	Description	Planned Implementation Year	Expected Increase of Recycled Water Use
Construct distribution infrastructure	Design and construction of two recycled water reservoirs, a 1,500 gallons per minute booster pump station, and 9,400 linear feet of pipeline	2025	826
Total:			826

6-8R | Actual Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill (part of SBBA)	12,088	Drinking Water	
Groundwater (not desalinated)	Bunker Hill (part of SBBA)	1,531	Other Non-Potable Water	
Groundwater (not desalinated)	Yucaipa	297	Other Non-Potable Water	
Surface water (not desalinated)	Santa Ana River (part of SBBA)	5,796	Drinking Water	
Surface water (not desalinated)	Mill Creek (part of SBBA)	6,045	Drinking Water	
Purchased or Imported Water	SWP - Direct Deliveries	535	Drinking Water	
Recycled Water	Recycled Water - Direct	1,806	Recycled Water	
Total:		28,098		-

6-8DS | Source Water Desalination

STATUS:

NOTES:

Neither groundwater nor surface water are reduced in salinity prior to distribution. The supplier will not complete the table.

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	12,973		13,922		14,861		15,677		16,484	
Recycled Water	Bunker Hill - Recycled Water Recharge	3,766		4,015		4,275		4,513		4,760	
Groundwater (not desalinated)	Yucaipa	1,000		1,000		1,000		1,000		1,000	
Surface water (not desalinated)	Santa Ana River (part of SBBA)	5,000		5,000		5,000		5,000		5,000	
Surface water (not desalinated)	Mill Creek (part of SBBA)	5,500		5,500		5,500		5,500		5,500	
Purchased or Imported Water	SWP - Direct Deliveries	700		700		700		700		700	
Recycled Water	Recycled Water - Direct	2,100		2,100		2,100		2,100		2,100	
Total:		31,039	-	32,238	-	33,436	-	34,490	-	35,544	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	31,039	32,238	33,436	34,490	35,544
Demand Totals From Table 4-3R	26,991	28,033	29,075	29,991	30,908
Difference:	4,049	4,205	4,361	4,499	4,636

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES:

	2025	2030	2035	2040	2045
Supply Totals	34,143	35,461	36,780	37,939	39,098
Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:	4,453	4,625	4,797	4,949	5,100

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES:

		2025	2030	2035	2040	2045
First Year	Supply Totals	34,143	35,461	36,780	37,939	39,098
	Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:		4,453	4,625	4,797	4,949	5,100
Second Year	Supply Totals	34,143	35,461	36,780	37,939	39,098
	Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:		4,453	4,625	4,797	4,949	5,100
Third Year	Supply Totals	34,143	35,461	36,780	37,939	39,098
	Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:		4,453	4,625	4,797	4,949	5,100
Fourth Year	Supply Totals	34,143	35,461	36,780	37,939	39,098
	Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:		4,453	4,625	4,797	4,949	5,100
Fifth Year	Supply Totals	34,143	35,461	36,780	37,939	39,098
	Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:		4,453	4,625	4,797	4,949	5,100
Sixth Year	Supply Totals	34,143	35,461	36,780	37,939	39,098
	Demand Totals	29,690	30,836	31,982	32,990	33,998
Difference:		4,453	4,625	4,797	4,949	5,100

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	29,598
	Total Supplies	34,037
	Surplus/Shortfall without WSCP Action	4,440
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	4,440
	Resulting Percent Use Reduction from WSCP Action	0%
2022	Gross Water Use	29,621
	Total Supplies	34,064
	Surplus/Shortfall without WSCP Action	4,443
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	4,443
	Resulting Percent Use Reduction from WSCP Action	0%
2023	Gross Water Use	29,644
	Total Supplies	34,090
	Surplus/Shortfall without WSCP Action	4,447
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	4,447
	Resulting Percent Use Reduction from WSCP Action	0%
2024	Gross Water Use	29,667
	Total Supplies	34,117
	Surplus/Shortfall without WSCP Action	4,450
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	4,450
	Resulting Percent Use Reduction from WSCP Action	0%
2025	Gross Water Use	29,690
	Total Supplies	34,143
	Surplus/Shortfall without WSCP Action	4,453
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	4,453
	Resulting Percent Use Reduction from WSCP Action	0%

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES: -

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Voluntary Conservation Measures (Redlands Stage 1) - A small decrease in water supply is expected. The actions listed in DWR Table 8-2 for shortage level 1 will be in effect.
2	Up to 20%	Mandatory Compliance; Water Alert (Redlands Stage 2) - A medium decrease in water supply is expected. The actions listed in DWR Table 8-2 for shortage level 2 will be in effect.
3	Up to 30%	Mandatory Compliance; Water Warning (Redlands Stage 3) - A significant decrease in water supply is expected. The actions listed in DWR Table 8-2 for shortage level 3 will be in effect.
4	Up to 40%	Mandatory Compliance; Water Emergency (Redlands Stage 4) - Water supplies are in danger of being depleted to a point where such uses as human consumption, sanitation, and fire protection would be endangered. This would be a decrease in supply of more than 50 percent, most likely associated with a natural disaster. The actions listed in DWR Table 8-2 for shortage level 4 will be in effect.
5	Up to 50%	Mandatory Compliance; Water Emergency (Redlands Stage 4) - Water supplies are in danger of being depleted to a point where such uses as human consumption, sanitation, and fire protection would be endangered. This would be a decrease in supply of more than 50 percent, most likely associated with a natural disaster. The actions listed in DWR Table 8-2 for shortage level 4 will be in effect.
6	>50%	Mandatory Compliance; Water Emergency (Redlands Stage 4) - Water supplies are in danger of being depleted to a point where such uses as human consumption, sanitation, and fire protection would be endangered. This would be a decrease in supply of more than 50 percent, most likely associated with a natural disaster. The actions listed in DWR Table 8-2 for shortage level 4 will be in effect.

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

8-2 | Demand Reduction Actions

STATUS:

NOTES:

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
All	Expand Public Information Campaign	0-20%		No
All	Improve Customer Billing	0-1%		No
All	Offer Water Use Surveys	0-1%		No
All	Provide Rebates on Plumbing Fixtures and Devices	0-1%		No
All	Provide Rebates for Landscape Irrigation Efficiency	0-1%		No
All	Provide Rebates for Turf Replacement	0-1%		No
All	Reduce System Water Loss	0-5%		No
All	Other	0-5%	upgrades to increase recycled water use.	No
	1 Other	0-5%	Voluntary,; Landscape - Adjust landscape irrigation fixtures and systems to avoid waste	No
	1 Other	0-1%	Voluntary, Install water saving devices	No
	1 Other	0-1%	Voluntary,select low water demand plants for new landscaping	No
	1 CII - Restaurants may only serve water upon request	0-1%	Voluntary, Restrict water service in restaurants	No
	2 Increase Water Waste Patrols	0-5%	Efforts in Phase 2 of City's POA	No

2	Other	0-1%	Increased regional collaboration to ensure sufficient water supplies for the entire region.	No
2	Landscape - Limit landscape irrigation to specific times	5-10%	Landscape - Limit landscape irrigation by sprinkler to specific times within City's current WSCP, Stage II	Yes
2	Landscape - Limit landscape irrigation to specific days	5-10%	Landscape - Limit landscape irrigation by sprinkler to specific days within City's current WSCP, Stage II	Yes
2	Landscape - Other landscape restriction or prohibition	0-1%	Commercial agriculture exempt from limit on irrigation days and times but shall curtail all non-essential water use.	Yes
2	Other	0-1%	Washing of any vehicles is limited to allowed watering days and times and only with handheld bucket, or hose equipped with automatic shutoff nozzle.	Yes
2	Other	0-1%	Prohibit use of fire hydrants potable water for construction purposes	Yes

	2 Other water feature or swimming pool restriction	0-1%	Refilling or adding of water to pools allowed only on allowed watering days and times.	Yes
	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Use is prohibited unless fountain or other structure has a recycling system.	Yes
	2 Other	0-1%	Washing/Sprinkling of Foundations/ Structures Allowed only by City Permit	Yes
	2 Landscape - Other landscape restriction or prohibition	0-5%	Gold greens and tees are only allowed irrigation on allowed watering days and times. Fairway irrigation is absolutely prohibited except when irrigated with treated wastewater or reused water.	Yes
	2 CII - Restaurants may only serve water upon request	0-1%		Yes
	2 Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-5%	Failure to repair controllable leaks is prohibited.	Yes
	2 Other - Prohibit use of potable water for washing hard surfaces	0-1%		Yes
	2 Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%		Yes
	3 Other	0-1%	Implement hotline and email address for water waste reporting.	No

			Develop internal Drought Task Force to collaborate on different methods to reduce consumption under each City department's purview of responsibilities	
3	Other	0-1%		No
3	Landscape - Other landscape restriction or prohibition	0-5%	All outdoor irrigation of vegetation shall occur only on allowed days and times using only handheld hoses, drip irrigation, or handheld buckets.	Yes
3	Landscape - Prohibit all landscape irrigation	0-1%	on golf tee areas. Except when irrigated with treated wastewater or reused water.	Yes
4	Landscape - Prohibit all landscape irrigation	10-30%	Except on allowed watering days and times	Yes
4	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing limited to permitted hours and to vehicles/mobile equipment in the immediate interest of public health or safety.	Yes

			Commercial Agriculture irrigation is only permitted on designated days and times and only using handheld hoses, drip irrigation systems, or handheld buckets	
4	Landscape - Other landscape restriction or prohibition	0-5%		Yes
4	Pools - Allow filling of swimming pools only when an appropriate cover is in place.	0-1%		Yes
4	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Prohibited at all times	Yes
4	Other	0-1%	The issuance of new service connections and meters is prohibited.	Yes
A surcharge is applied to a customer's utility bill on the 3rd violation. When in a particular stage, all elements of less restrictive stages shall apply as well.				

8-3R | Supply Augmentation & Other Actions

STATUS: Published

NOTES: -

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
4	Other purchases	3%	Utilize intertie with City of Loma Linda. Mutual Aid agreement between Cities, September 1987
4	Other purchases	3%	Utilize intertie with Western Heights Water Company. Intertie constructed August 2016

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of Redlands	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	City of Redlands		Reporting Period Start Date	1/1/2020
Water Delivery Product	Other		Reporting Period End Date	12/30/2020
	Urban Water Supplier Operational Control			
	Sum of all Water Management Process		Non-Consequential Hydropower	
	Total Utility		Hydropower	Net Utility
Volume of Water Entering Process (AF)	26866		0	26866
Energy Consumed (kWh)	11317010		0	11317010
Energy Intensity (kWh/AF)	421.2		0.0	421.2
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy		0.0 kWh
Data Quality Narrative	Total energy consumed in 2020 was quantified through meter data.			
Water Supply Narrative	The City has four sources of water to provide to its service area: Purchased imported water, groundwater, surface water and recycled water.			

D-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	32,208	Acre Feet (AF)
	2008 total volume of delivered recycled water	2,568	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	7.97	Percent
	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	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES: -

Method for Population Estimates	
No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
Yes	3. DWR Population Tool
No	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES: -

Year		Population
10 to 15 Year Baseline Population		
Year 1	1999	70,059
Year 2	2000	70,678
Year 3	2001	71,254
Year 4	2002	71,921
Year 5	2003	72,585
Year 6	2004	76,405
Year 7	2005	81,802
Year 8	2006	80,391
Year 9	2007	79,653
Year 10	2008	84,577
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	72,585
Year 2	2004	76,405
Year 3	2005	81,802
Year 4	2006	80,391
Year 5	2007	79,653
2020 Compliance Year Population		
2020		78,052

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	1,999	26,710			0		-	26,710
Year 2	2,000	28,592			0		-	28,592
Year 3	2,001	27,571			0		-	27,571
Year 4	2,002	30,054			0		-	30,054
Year 5	2,003	30,602			0		-	30,602
Year 6	2,004	29,390			0		-	29,390
Year 7	2,005	27,311			0		-	27,311
Year 8	2,006	33,272			0		-	33,272
Year 9	2,007	34,704			0		-	34,704
Year 10	2,008	34,437			0		-	34,437
Year 11	0	0			0		-	0
Year 12	0	0			0		-	0
Year 13	0	0			0		-	0
Year 14	0	0			0		-	0
Year 15	0	0			0		-	0
10 - 15 year baseline average gross water use:								30,264
5 Year Baseline - Gross Water Use								
Year 1	2,003	28,067			0		-	28,067
Year 2	2,004	28,929			0		-	28,929
Year 3	2,005	27,096			0		-	27,096
Year 4	2,006	31,358			0		-	31,358
Year 5	2,007	34,314			0		-	34,314
5 year baseline average gross water use:								29,953
2020 Compliance Year - Gross Water Use								
2020		24,464	81		0		-	24,383

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source			
Name of Source:		Source 1	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,999	26,710	26,710
Year 2	2,000	28,592	28,592
Year 3	2,001	18,339	18,339
Year 4	2,002	28,698	28,698
Year 5	2,003	25,618	25,618
Year 6	2,004	28,539	28,539
Year 7	2,005	27,096	27,096
Year 8	2,006	30,823	30,823
Year 9	2,007	34,314	34,314
Year 10	2,008	33,256	33,256
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,003	25,618	25,618
Year 2	2,004	28,539	28,539
Year 3	2,005	27,096	27,096
Year 4	2,006	30,823	30,823
Year 5	2,007	34,314	34,314
2020 Compliance Year - Water into Distribution System			
2020		23,929	23,929

SB X7-4A | Volume Entering the Distribution System(s)

A purchased or imported source.			
Name of Source:		Source 2	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,999	0	0
Year 2	2,000	0	0
Year 3	2,001	9,232	9,232
Year 4	2,002	1,356	1,356
Year 5	2,003	4,984	4,984
Year 6	2,004	851	851
Year 7	2,005	215	215
Year 8	2,006	2,449	2,449
Year 9	2,007	390	390
Year 10	2,008	1,181	1,181
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,003	4,984	4,984
Year 2	2,004	851	851
Year 3	2,005	215	215
Year 4	2,006	2,449	2,449
Year 5	2,007	390	390
2020 Compliance Year - Water into Distribution System			
2020		535	535

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3		Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	70,059	26,710	340
Year 2	2000	70,678	28,592	361
Year 3	2001	71,254	27,571	346
Year 4	2002	71,921	30,054	373
Year 5	2003	72,585	30,602	376
Year 6	2004	76,405	29,390	344
Year 7	2005	81,802	27,311	298
Year 8	2006	80,391	33,272	370
Year 9	2007	79,653	34,704	389
Year 10	2008	84,577	34,437	364
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:				356
5 Year Baseline GPCD				
Year 1	2003	72,585	30,602	376
Year 2	2004	76,405	29,390	344
Year 3	2005	81,802	27,311	298
Year 4	2006	80,391	33,272	370
Year 5	2007	79,653	34,704	389
5 Year Average Baseline GPCD:				355
2020 Compliance Year GPCD				
2020		78,052	24,383	279

SB X7-6 | Gallons per Capita per Day

STATUS: Published

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	356
5 Year Baseline GPCD	355
2020 Compliance Year GPCD	279

SB X7-7 | 2020 Target Method

STATUS:

NOTES: -

Select Only One	
Yes	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
No	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
356	285

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES: -

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
285	356	321

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
279	285				0	279	279	YES

D-8: AWWA Water Audits



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 Redlands**
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

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' ----->

WATER SUPPLIED

Volume from own sources:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="20,914.357"/>	acre-ft/yr
Water imported:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="0.00%"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr

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

WATER SUPPLIED: **20,914.357** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="6"/>	<input type="text" value="18,441.140"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="444.020"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="52.286"/>	acre-ft/yr

AUTHORIZED CONSUMPTION: **18,937.446** acre-ft/yr

Click here:
for help using option buttons below

Pcnt:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="text" value="52.286"/>	acre-ft/yr
-------	-----------------------	----------------------------------	-----------------------	-------------------------------------	------------

Use buttons to select percentage of water supplied
OR
value

Pcnt:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="text" value="0.25%"/>	acre-ft/yr
-------	-----------------------	----------------------------------	-----------------------	------------------------------------	------------

<input type="text" value="1.25%"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr
<input type="text" value="0.25%"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption) **1,976.911** acre-ft/yr

Apparent Losses

Unauthorized consumption:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="52.286"/>	acre-ft/yr	
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed					
Customer metering inaccuracies:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="239.053"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="46.103"/>	acre-ft/yr
Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed					
Apparent Losses:	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="337.441"/>	acre-ft/yr		

Real Losses (Current Annual Real Losses or CARL)
Real Losses = Water Losses - Apparent Losses: **1,639.470** acre-ft/yr

WATER LOSSES: **1,976.911** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **2,473.217** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="405.6"/>	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="8"/>	<input type="text" value="18,117"/>	
Service connection density:	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="45"/>	conn./mile main		

Are customer meters typically located at the curbside or property 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:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="2"/>	<input type="text" value="87.0"/>	psi
-----------------------------	----------------------------------	---	--------------------------------	-----------------------------------	-----

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="\$18,440,849"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="\$1.61"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/>	<input style="background-color: #e0e0e0;" type="button" value="?"/>	<input type="text" value="4"/>	<input type="text" value="\$84.57"/>	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association.
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? Click to access definition
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Water Audit Report for: **City of Redlands (CA 3610037)**
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

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

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

WATER SUPPLIED

		----- Enter grading in column 'E' and 'J' ----->				Master Meter and Supply Error Adjustments					
Volume from own sources:	+ ?	5	23,313.878	acre-ft/yr	+ ?	3	0.00%	<input type="radio"/>	<input type="radio"/>		acre-ft/yr
Water imported:	+ ?	n/a	0.000	acre-ft/yr	+ ?			<input type="radio"/>	<input type="radio"/>		acre-ft/yr
Water exported:	+ ?	4	100.490	acre-ft/yr	+ ?	2	0.00%	<input type="radio"/>	<input type="radio"/>		acre-ft/yr

WATER SUPPLIED: **23,213.388** acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	18298.22622	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	3	2987.57	acre-ft/yr
Unbilled unmetered:	+ ?		290.167	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **21,575.964** acre-ft/yr

Click here: ?
for help using option

Pcnt: 1.25% Value: acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

WATER LOSSES (Water Supplied - Authorized Consumption)

1,637.424 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **58.033** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	3	269.440	acre-ft/yr
Systematic data handling errors:	+ ?		0.000	acre-ft/yr

Systematic data handling errors are likely, please enter a positive, non-zero value; otherwise grade = 1 (not displayed)

Apparent Losses: **327.474** acre-ft/yr

Pcnt: 0.25% Value: acre-ft/yr

1.25% 0.25%

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **1,309.950** acre-ft/yr

WATER LOSSES: **1,637.424** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **4,915.161** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	9	408.0	miles
Number of <u>active AND inactive</u> service connections:	+ ?	8	22,381	
Service connection density:			55	conn./mile main

Are customer meters typically located at the curbside or property line? Yes (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 87.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$27,446,142	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	5	\$1.61	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	4	\$354.00	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 51 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

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Water Audit Report for: **City of Redlands (CA 3610037)**
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

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

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

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="23466.6"/>	acre-ft/yr
Water imported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="4"/>	<input type="text" value="79.710"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="1.00%"/>	<input type="text" value=""/>	acre-ft/yr
	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr
	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="2"/>	<input type="text" value="0.00%"/>	<input type="text" value=""/>	acre-ft/yr

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

WATER SUPPLIED: **23,154.547** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="21704.99131"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="369.81"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="289.432"/>	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **22,364.228** acre-ft/yr

Click here: for help using option

Pcnt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt: Value: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

790.319 acre-ft/yr

Apparent Losses

Unauthorized consumption: acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="279.428"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="54.262"/>	acre-ft/yr

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

Apparent Losses: **391.577** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **398.742** acre-ft/yr

WATER LOSSES: **790.319** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,449.556** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="405.1"/>	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="8"/>	<input type="text" value="22,553"/>	
Service connection density:	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="56"/>	conn./mile main	

Are customer meters typically located at the curbside or property line? (length of service line, beyond the property boundary, that is the responsibility of the utility)

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

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="\$27,258,306"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="\$2.57"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="8"/>	<input type="text" value="\$267.43"/>	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 65 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
Copyright © 2014, All Rights Reserved.

? Click to access definition
+ Click to add a comment

Water Audit Report for: **City of Redlands (CA 3610037)**
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: ACRE-FEET PER YEAR

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

WATER SUPPLIED

		----- Enter grading in column 'E' and 'J' ----->				Master Meter and Supply Error Adjustments					
Volume from own sources:	+ ?	8	21,975.100	acre-ft/yr	+ ?	3	-0.30%	<input checked="" type="radio"/>	<input type="radio"/>		acre-ft/yr
Water imported:	+ ?	n/a	0.000	acre-ft/yr	+ ?			<input checked="" type="radio"/>	<input type="radio"/>		acre-ft/yr
Water exported:	+ ?	5	79.820	acre-ft/yr	+ ?	2	0.00%	<input checked="" type="radio"/>	<input type="radio"/>		acre-ft/yr

WATER SUPPLIED: **21,961.404** acre-ft/yr

Pcnt: Value:

Pcnt:	Value:
<input type="radio"/>	<input type="text" value="54.904"/>
<input checked="" type="radio"/>	<input type="text" value="54.904"/>
<input type="radio"/>	<input type="text" value=""/>
<input type="radio"/>	<input type="text" value=""/>

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

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	18,850.650	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	10	1052.88	acre-ft/yr
Unbilled unmetered:	+ ?	5	54.904	acre-ft/yr

AUTHORIZED CONSUMPTION: **19,958.435** acre-ft/yr

Click here: ?
for help using option

Pcnt:	Value:
<input type="radio"/>	<input type="text" value="54.904"/>
<input checked="" type="radio"/>	<input type="text" value="54.904"/>
<input type="radio"/>	<input type="text" value=""/>

Use buttons to select percentage of water supplied
OR
value

WATER LOSSES (Water Supplied - Authorized Consumption)

2,002.968 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **54.904** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	3	406.195	acre-ft/yr
Systematic data handling errors:	+ ?		47.127	acre-ft/yr

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

Apparent Losses: **508.225** acre-ft/yr

Pcnt:	Value:
<input type="radio"/>	<input type="text" value=""/>
<input checked="" type="radio"/>	<input type="text" value="0.25%"/>
<input type="radio"/>	<input type="text" value=""/>

<input type="radio"/>	<input type="text" value="2.00%"/>
<input checked="" type="radio"/>	<input type="text" value="0.25%"/>
<input type="radio"/>	<input type="text" value=""/>

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **1,494.744** acre-ft/yr

WATER LOSSES: **2,002.968** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **3,110.754** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	9	504.580	miles
Number of <u>active AND inactive</u> service connections:	+ ?	9	22,553.000	
Service connection density:	?		45	conn./mile main

Are customer meters typically located at the curbside or property line? Yes
(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 87.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$26,671,761	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	10	\$2.57	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	8	\$145.61	\$/acre-ft <input type="checkbox"/> 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: Billed metered

D-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact The City of Redlands to obtain the most current version of the WSCP.

City of Redlands Water Shortage Contingency Plan

JUNE 2021

City of Redlands





CITY OF REDLANDS

Water Shortage Contingency Plan

City of Redlands

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

City of Redlands

This Water Shortage Contingency Plan is a strategic plan that the City of Redlands (Redlands or the City) uses to prepare for and respond to water shortages.

A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that Redlands will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help Redlands maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with Redlands's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes Redlands's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes water shortage stages to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant Redlands the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if additional shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, Redlands completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. Redlands is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, Redlands implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, Redlands's water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, Redlands will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, Redlands must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to Redlands at the time of analysis and can be updated or revised at any time if circumstances change.

Redlands will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **Water Resources Specialist**
- **Water Conservation Specialist**
- **Utilities Operations Manager**
- **Water Production Operations Superintendent**
- **Fiscal Manager**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN – FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	Water Resources Specialist Water Production Operations Superintendent
JAN – FEB	Estimate available supplies for the year, considering the following year will be dry	<p>Each December, Redlands submits an order to Valley District for the volume of SWP water that is planned for use the following year. If the requested volume is not available due to reduced SWP supplies, Redlands will meet with Valley District and other SWP users to discuss reducing SWP orders and may update the Annual Assessment to reflect a shift from SWP to groundwater production, if needed.</p> <p>The remainder of supply needs not met from SWP and surface water will be pumped from the SBBA and Yucaipa Subbasin. The SBBA and Yucaipa Subbasin are sustainably managed to provide long term supply reliability and are not anticipated to be significantly impacted in dry years. In the unlikely event that local supplies are reduced, Redlands will coordinate with the BTAC to identify available supplies for the coming year.</p>	Water Resources Specialist Water Production Operations Superintendent Utilities Operations Manager
JAN – FEB	Consider potential constraints that may impact supply delivery	<p>Identify any known regional or Redlands infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity.</p> <p>Identify any facilities out of service due to water quality problems, equipment failure, storm damage, etc. that may impact normal water deliveries.</p> <p>Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs. Depending on infrastructure in question, Bear Valley Mutual Water Company (BVMWC) may need to be consulted.</p>	Water Resources Specialist Water Production Operations Superintendent Utilities Operations Manager Optional: BVMWC-General Manager

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
FEB	Convene WSCP Team to conduct Annual Assessment	Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response stage and actions are recommended to reduce/eliminate the shortage. Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response actions are needed to comply with the State mandate.	WSCP Team
MAY/JUNE	City Council	If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the Redlands City Council, including the recommended shortage stage and response actions. The City Council may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.	Municipal Utilities and Engineering Department City Manager's Office Redlands City Council
ON-GOING	Implement WSCP actions, if needed	Relevant members of Redlands staff will implement shortage response actions associated with the declared water shortage stage.	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR.	Water Resources Specialist and/or Water Conservation Specialist

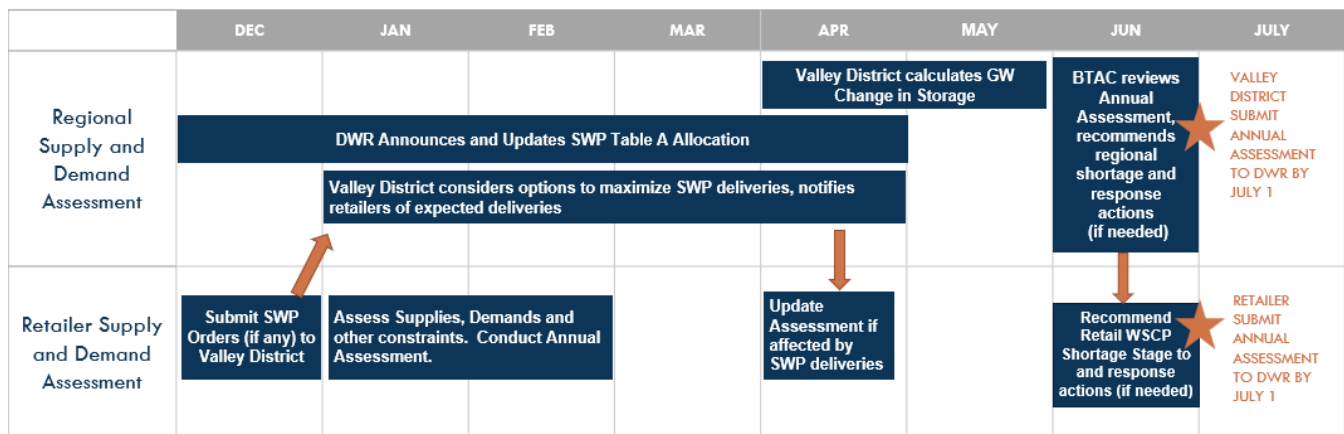


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

Redlands does not foresee imposing a water shortage stage based on climate conditions, except under the State's direction, as occurred in 2014. However, Redlands does see a greater likelihood of imposing a water shortage stage due to a catastrophic failure of infrastructure or emerging regulatory constraints on groundwater quality. If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that Redlands may implement.

Redlands uses four (4) shortage stages to identify and respond to water shortage emergencies. At a minimum, Redlands encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I: Voluntary Conservation Measures

A small decrease in water supply is expected.

Stage II: Mandatory Compliance; Water Alert

A medium decrease in water supply is expected.

Stage III: Mandatory Compliance; Water Warning

A significant decrease in water supply is expected.

Stage IV: Mandatory Compliance; Water Emergency

Water supplies are in danger of being depleted to a point where such uses as human consumption, sanitation, and fire protection would be endangered. This would be a decrease in supply of more than 50 percent, most likely associated with a natural disaster.

The CWC outlines six standard water shortage stages that correspond to a gap in supply compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. Redlands is maintaining its current four shortage stages for this WSCP. A crosswalk was developed that defines how Redlands' current 4 water shortage stages will align with DWR's standardized 6 stages of shortage. A visual representation of this alignment is shown in [Figure 2](#).

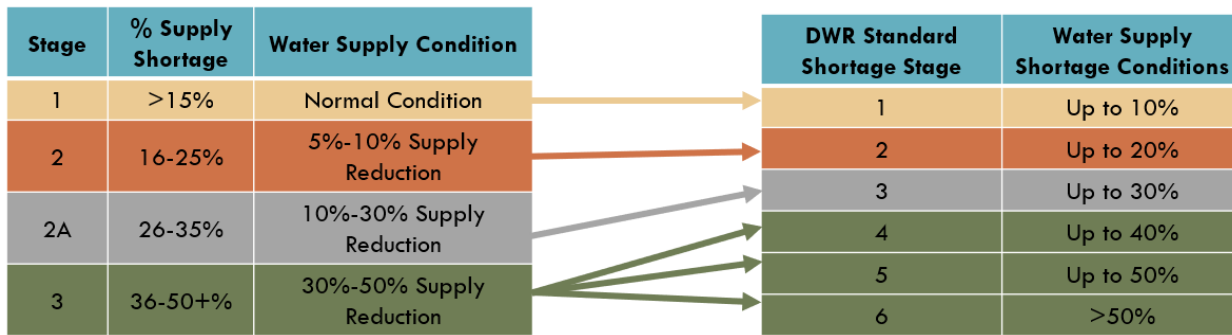


Figure 2. Crosswalk to DWR’s Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Voluntary Conservation Measures (Redlands Stage 1)
2	Up to 20%	Mandatory Compliance; Water Alert (Redlands Stage 2)
3	Up to 30%	Mandatory Compliance; Water Warning (Redlands Stage 3)
4	Up to 40%	Mandatory Compliance; Water Emergency (Redlands Stage 4)
5	Up to 50%	Mandatory Compliance; Water Emergency (Redlands Stage 4)
6	>50%	Mandatory Compliance; Water Emergency (Redlands Stage 4)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that must be implemented or considered for each stage to minimize social and economic impacts to the community.

In accordance with CWC 10632(b) Redlands analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions Redlands can take in the event of a water shortage condition. Redlands currently maintains interconnections with the City of Loma Linda and Western Heights Water Company. During water shortage emergencies, Redlands may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
4	Other purchases	~3%	Utilize intertie with City of Loma Linda. Mutual Aid agreement between Cities, September 1987
4	Other purchases	~3%	Utilize intertie with Western Heights Water Company. Intertie constructed August 2016

4.2 Demand Reduction

In addition to prohibitions on end uses, which are the responsibility of customers, Redlands is committed to lead by example. In 2015, Redlands created a “Plan of Action” (POA) that outlines efforts to improve outreach and resources for customers and increase water efficiency at its own facilities. This four-phase approach includes increasing efforts and funding in correlation with increasing water reduction requirements. Many elements of this plan have been completed, are ongoing, or in process of completion. [Table 4](#) summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
All	Expand Public Information Campaign	0-20%		No
All	Improve Customer Billing	0-1%		No
All	Offer Water Use Surveys	0-1%		No
All	Provide Rebates on Plumbing Fixtures, Devices and Appliances	0-1%		No
All	Provide Rebates for Landscape Irrigation Efficiency	0-1%		No
All	Provide Rebates for	0-1%		No

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
	Turf Replacement			
All	Reduce System Water Loss	0-5%		No
All	Other	0-5%	upgrades to increase recycled water use.	No
1	Other	0-5%	Voluntary, Landscape - Adjust landscape irrigation fixtures and systems to avoid waste	No
1	Other	0-1%	Voluntary, install water saving devices	No
1	Other	0-1%	Voluntary, select low water demand plants for new landscaping	No
1	CII - Restaurants may only serve water upon request	0-1%	Voluntary, Restrict water service in restaurants	No
2	Water Waste Patrols	0-5%	Efforts in Phase 2 of City's POA	Yes
2	Other	0-1%	Increased regional collaboration to ensure sufficient water supplies for the entire region.	No
2	Landscape - Limit landscape irrigation by sprinkler to specific times	5-10%	Within City's current WSCP, Stage II	Yes
2	Landscape - Limit landscape irrigation by sprinkler to specific days	5-10%	Within City's current WSCP, Stage II	Yes
2	Landscape - Other landscape restriction or prohibition	0-1%	Commercial agriculture exempt from limit on irrigation days and times but shall curtail all non-essential water use.	Yes
2	Other	0-1%	Washing of any vehicles/mobile equipment is limited to allowed watering days and times and only with handheld bucket, or hose equipped with automatic shutoff nozzle.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2	Other - Prohibit use of fire hydrants for construction purposes	0-1%		Yes
2	Pool/Spa Prohibition	0-1%	Refilling or adding of water allowed only on permitted watering days/ times.	Yes
2	Decorative Water Features-Use is Prohibited	0-1%	Unless feature has a water recycling system	Yes
2	Washing/Sprinkling of Foundations/ Structures	0-1%	Allowed only by City Permit	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Golf greens and tees are only allowed irrigation on allowed watering days and times. Fairway irrigation is absolutely prohibited. Exemption from restrictions: Golf course irrigation utilizing treated wastewater or reused water.	Yes
2	CII - Restaurants may only serve water upon request	0-1%		Yes
2	Other - Customers must repair leaks, breaks, and malfunctions	0-5%	Failure to repair controllable leaks is prohibited.	Yes
2	Other - Prohibit use of water for washing hard surfaces	0-1%		Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%		Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
3	Other	0-1%	Implement hotline and email address for water waste reporting.	No
3	Other	0-1%	Develop internal Drought Task Force to collaborate on different methods to reduce consumption under each City department's purview of responsibilities	No
3	Landscape - Other landscape restriction or prohibition	0-5%	All outdoor irrigation of vegetation shall occur only on allowed days and times using only handheld hoses, drip irrigation, handheld buckets, or permanently installed automatic sprinkler systems.	Yes
3	Landscape - Other landscape restriction or prohibition	0-1%	Golf tee area watering is prohibited. Except when irrigated with treated wastewater or reused water.	Yes
4	Landscape - Prohibit all landscape irrigation	10-30%	Except on allowed watering days and times	Yes
4	Other - Prohibit vehicle/mobile equipment washing except at commercial car washes and service stations	0-1%	Washing limited to permitted hours and to vehicles/mobile equipment in the immediate interest of public health or safety.	Yes
4	Landscape - Other landscape restriction or prohibition	0-5%	Commercial Agriculture irrigation is only permitted on designated days and times and only using handheld hoses, drip irrigation systems, or handheld buckets	Yes
4	Pools/Spas - Allow filling only when an appropriate cover is in place.	0-1%		Yes
4	Water Features - Restrict water use for decorative water features,	0-1%	Prohibited at all times	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
	such as fountains			
4	Other	0-1%	The issuance of new service connections and meters is prohibited.	Yes

A surcharge is applied to a customer’s utility bill on the 3rd violation. When in a particular stage, all elements of less restrictive stages shall apply as well.

4.3 Operational Changes and Additional Mandatory Restrictions

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. Redlands will consider their operational procedures when it completes its Annual Assessment. Any additional mandatory restrictions implemented in response to the declaration of a shortage response stage, beyond the actions listed in [Table 3](#) and [Table 4](#), are listed in Redlands’ Ordinance No. 2151 in January 1991 and Ordinance No. 2751 in 2011 which make up the *City of Redlands Water Conservation Plan* (“Plan”), provided in [Attachment 1](#).

4.4 Emergency Response Plan

In December 2020, Redlands completed a Risk and Resilience Assessment (RRA) and by June 30th 2021, will have completed the Emergency Response Plan (ERP) in accordance with America’s Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of Redlands’ infrastructure. The RRA assessed Redlands’ water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of Redlands’ system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of these documents are confidential and for use by Redlands’ staff only. However, Redlands can confirm that these assessments will meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to Redlands’ infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, Redlands is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. Redlands may also implement its four-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 4), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In addition to the AWIA RRA and ERP (underway), the City of Redlands has a 2015 Hazard Mitigation Plan (HMP) that includes an assessment of seismic risk and mitigation strategies. The HMP is included as [Attachment 2](#).

The seismic hazards evaluated include fault rupture, liquefaction and seismic shaking and assessed the threat to critical facilities. The HMP concluded that there are potential mitigation activities to reduce the risk of damage in earthquakes. These include structural mitigation of vulnerable building structures and infrastructure facilities.

In 2021, Redlands is preparing a Condition, Seismic and Structural Assessment for their water infrastructure, which will include specific mitigation actions. The study is expected to be complete in 2022.

4.6 Shortage Response Action Effectiveness

Redlands has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#), when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

Redlands prioritizes effective communication, especially in times of a water shortage emergency. Redlands routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, and direct mail pieces to newspaper and bus shelter advertisements, news releases, social media outreach, and website content. Redlands continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

For prohibitions on end uses, customers will receive a violation should they violate restrictions set forth in the stage currently in effect and the preceding stages. Upon third violation, a surcharge is imposed on the customer's next regular water bill. The surcharge consists of a percentage of the customer's commodity charge on the most recent water bill, based on the stage then in effect. The surcharge for each stage is as follows:

- **Stage II: 25 percent**
- **Stage III: 50 percent**
- **Stage IV: 75 percent**

If a water customer cited for a third violation fails or refuses to comply with the requirements of this chapter or to pay any outstanding water bills including surcharges, the City Manager is hereby granted discretionary authority pursuant to CWC section 375 to cause a flow restricting device to be installed at the meter to reduce water availability to the customer's service address. Pursuant to CWC section 35423, if installation of a flow restrictor is infeasible, impractical or is unlikely to induce compliance with this chapter, the City Manager may authorize a shutoff of service to the premises involved. (Ord. 2151 § 1, 1991)

A city water user may file a request for relief from any provision of this chapter. The City Manager shall review all requests and hold a hearing with each applicant. The City Manager may grant relief from the provisions of this chapter if he determines that special circumstances make compliance not reasonably possible, or that the restrictions herein would either:

- **Cause an unnecessary and undue hardship to the water user or the public; or**
- **Cause an emergency condition affecting the health, sanitation, fire protection or safety of the water user or of the public.**

Such relief may be granted only upon written request to the City. Upon granting such relief, the City Manager may impose any conditions he determines to be just and proper. The City Manager shall make his determination within fourteen (14) days of receipt of the request for relief and shall inform the applicant of the decision in writing.

An applicant shall have the right to appeal the City Manager's decision regarding his or her application to the City Council or its designee. The appeal must be in writing and received by the City within ten (10) days of the date of the City Manager's written decision. The appeal shall be heard by the City Council or its designee within a reasonable period of time from the date the appeal is filed. The City shall provide written notice to the applicant of the time and date of the hearing. The City Council or its designee, at its discretion, may affirm, reverse or modify the City Manager's decision and impose any conditions it deems proper. The decision of the City Council shall be final. (Ord. 2151 § 1, 1991)

7.0 Legal Authorities

To offset the prolonged effects of a drought period or other emergency, the City Council adopted Ordinance No. 2151 in January 1991 and Ordinance No. 2751 in 2011 which make up the *City of Redlands Water Conservation Plan* ("Plan"), the City's water shortage contingency plan. These ordinances collectively provide water conservation measures in order to minimize the effect of a water shortage on the citizens of the community. The Plan includes provisions that will significantly reduce the waste and inefficient use of water, thereby extending the available water resources required for the domestic and fire protection needs of the City and general public. The adopted Plan, approved by City Council, can be found in [Attachment 1](#).

7.1 Water Shortage Emergency Declaration

In accordance with CWC Section Division 1, Section 350, the City Council shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, Redlands shall coordinate with any of the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

Implementation of any stage of the Plan requiring mandatory restrictions may cause a decrease in revenues and an increase in expenditures. The State drought emergency declaration of 2014-2017 resulted in decreased revenue and increased expenditures. Mandatory restrictions were required, necessitating an increase in staffing to target water use reduction requirements and increase outreach

efforts. Like most agencies, the majority of the City's costs are fixed, and the combination of decreasing revenues and increased expenditures required implementation of revenue adjustments.

Although the City had reserve funds, reserve funds are typically reserved for emergencies needing immediate attention where time constraints of a rate study, customer noticing, and public hearings would impede immediate actions. City determined it was not sound financial practice to spend reserve funds to address declining sales due to drought, but rather address revenue shortages with a rate adjustment. It is expected that in the event of another water shortage emergency, the City would follow the same protocol to address a revenue decrease and/or expenditure increase. In the case where revenue adjustments and use of reserve funds are not options, the City would postpone capital improvement projects to offset diminished revenues.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. Redlands will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to Redlands' City Council for discretionary approval. Once discretionary approval has been granted, Redlands will hold a public hearing, obtain any comments and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

Redlands adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in **May/June 2021** and a public hearing was held on **June 15, 2021**, to receive public input on the 2020 IRUWMP and the WSCP.

The Redlands City Council adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 15, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on the City of Redlands web site.

If Redlands identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

References

- California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.
- Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.
- United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: City of Redlands Water Conservation Plan

Chapter 13.06 WATER CONSERVATION PLAN

13.06.010: TITLE:

This chapter establishes the *CITY OF REDLANDS WATER CONSERVATION PLAN*. (Ord. 2151 § 1, 1991)

13.06.020: INTENT:

The city council of the city of Redlands declares that the public health, safety and general welfare requires that water resources available to the city be put to maximum beneficial use, that the waste or unreasonable use of water be prevented, and that the conservation of such water must occur to protect the people and property of the city of Redlands. (Ord. 2151 § 1, 1991)

13.06.030: PURPOSE AND SCOPE:

- A. The purpose of this chapter is to reduce the nonessential use of water to conserve city water supplies, thereby minimizing the effect of a shortage of water supplies on city users. The water conservation plan here established is to:
1. Protect the health, safety, and welfare of the citizens and property owners of the city;
 2. Assure the maximum beneficial use of city water supplies; and
 3. Attempt to provide sufficient water supplies to meet the basic needs of human consumption, sanitation and fire protection.
- B. This chapter shall remain in effect until the city council declares by ordinance that the provisions of this chapter are no longer applicable to existing water supply conditions and the supply of water available for distribution within the city's service area has been replenished or augmented. (Ord. 2151 § 1, 1991)

13.06.040: AUTHORIZATION:

- A. The city is authorized to implement the provisions of this chapter following a public hearing as specified below upon the city council's determination by majority vote of the entire council that such implementation is necessary to protect the public health and safety.
- B. A public hearing shall be held to determine whether to adopt a water conservation plan, and, if so, which measures provided herein should be implemented. A similar public hearing shall be held by the city council prior to the implementation or termination of each incremental water conservation stage pursuant to section [13.06.080](#) of this chapter. Notice of the time and place of these public hearings shall be published not less than ten (10) days before the hearing in a newspaper of general circulation.
- C. Upon adoption by the city council, the provisions of this chapter shall become effective immediately. Notice of the implementation of successive stages of water conservation shall be given to water users immediately both by publication at least once in a newspaper of general circulation within ten (10) days after adoption, and by a notice enclosed with the next regular city invoice for water or utility service.
- D. If the city council cannot meet in time to act to protect the public interest pursuant to this chapter, the city manager or his designee is hereby authorized and directed to implement such provisions of this chapter upon his or her written determination that the city cannot supply adequate water to meet the ordinary demands of water consumers, and that such implementation is necessary to protect the public health or safety. Such written determination shall be presented to the city council at its next meeting for review, revocation or ratification. Such meeting shall be held as soon as possible. (Ord. 2151 § 1, 1991)

13.06.050: APPLICATION:

The provisions of this chapter shall apply to all persons, customers, and property served water by the city wherever situated. (Ord. 2151 § 1, 1991)

13.06.060: GENERAL PROHIBITION:

No water user shall make, cause, use, or permit the use of water supplied by the city for residential, commercial, industrial, agricultural, governmental or any other use in a manner contrary to this chapter. Waste or the unreasonable or nonbeneficial use of water is prohibited in the city of Redlands. (Ord. 2151 § 1, 1991)

13.06.070: MANDATORY CONSERVATION; STAGE CRITERIA:

The director of the public works department shall recommend guidelines for adoption by the city council setting forth the criteria to determine when water supply conditions in the city require the implementation or termination of each water conservation stage. Such guidelines shall be updated when the director determines that water availability so requires. The director shall include in such guidelines a calendar symbol system designating allowed days for irrigation. (Ord. 2151 § 1, 1991)

13.06.080: MANDATORY CONSERVATION; PHASE IMPLEMENTATION:

The public works department shall monitor the projected supply and demand for water by its customers on a daily basis during the months of June, July, August, September, and October and shall recommend to the city manager the extent of conservation required through the implementation and/or termination of particular conservation stages to allow the department to prudently plan for and supply water to its customers. Thereafter, the city manager may recommend to the city council the implementation or termination of the appropriate stage of water conservation in accordance with the applicable provisions of this chapter. The city council may implement or terminate the appropriate stage pursuant to section [13.06.040](#) of this chapter. Notice of the implementation or termination of each stage shall be given pursuant to subsection [13.06.040C](#) of this chapter.

A. Stage I, Voluntary Conservation Measures: Water users are requested to limit their water use from June 1 to October 1 of each year to an amount necessary for health, safety, economic necessity and irrigation. Water users should use water wisely and prevent its waste or unreasonable use.

The following actions are recommended:

1. Adjust sprinklers and irrigation systems to avoid overspray, runoff, and waste. Avoid watering on windy days;
2. Install water saving devices, such as low flow showerheads and faucet aerators;
3. Select low water demand shrubs, ground covers and trees for new landscaping;

4. Restrict water service in restaurants.

B. Stage II, Mandatory Compliance; Water Alert: When implemented pursuant to subsection [13.06.040B](#) of this chapter and noticed pursuant to subsection [13.06.040C](#) of this chapter, the following restrictions shall apply to the use of water supplied by the city in addition to the recommendations of stage I:

1. Irrigation of lawns, gardens, landscaped areas, trees, shrubs, or other plants utilizing individual sprinklers or sprinkler systems is allowed only on an irrigation day designated by the city and is prohibited between the hours of twelve o'clock (12:00) noon and eight o'clock (8:00) P.M. However, irrigation is permitted at any time if:
 - a. A handheld hose is used, or
 - b. A handheld, faucet filled bucket containing five (5) gallons or less is used, or
 - c. A drip irrigation system is used.

Commercial nurseries, commercial farmers, and grove settings requiring twenty four (24) hour irrigation cycles, are exempt from stage II irrigation restrictions, but shall curtail all nonessential water use.

2. The washing of automobiles, trucks, trailers, boats, aircraft and other types of mobile equipment is allowed only on designated irrigation days and is prohibited between the hours of twelve o'clock (12:00) noon and eight o'clock (8:00) P.M. Mobile equipment washing shall be done only with a handheld bucket or a handheld hose equipped with a positive shutoff nozzle for quick rinses.

Notwithstanding the above, washing of such equipment may be done at any time on the immediate premises of a commercial car wash or commercial service station with washwater recycling facilities. Garbage trucks and vehicles to transport food and perishables are exempt from these regulations if the public health or safety requires frequent vehicle cleaning.

3. The washing or sprinkling of foundations or structures shall be allowed only by city permit. Regulations for such permit shall be enacted by resolution.
4. The refilling or adding of water to uncovered swimming or wading pools or spas is allowed only on designated irrigation days and is prohibited between the hours of twelve o'clock (12:00) noon and eight o'clock (8:00) P.M.
5. The operation of any ornamental fountain or other structure making similar decorative use of water is prohibited, unless the fountain or structure has a recycling system.
6. The use of water for irrigation of golf greens and tees is allowed only on designated irrigation days and is prohibited between twelve o'clock (12:00) noon and eight o'clock (8:00) P.M. The irrigation of golf course fairways is absolutely prohibited. The irrigation of golf courses utilizing treated wastewater or reused water is not subject to these prohibitions.

7. Restaurants shall not serve water to customers except upon specific customer request.
8. Failure to repair controllable leaks is prohibited.
9. Use of running water to wash driveways, sidewalks, parking areas, patios, tennis courts and other paved areas is prohibited.
10. Failure to prevent excessive runoff from irrigation activities is prohibited.
11. Use of water from fire hydrants is limited to firefighting and other activities necessary to maintain the health, safety, and welfare of the citizens of Redlands. The use of water piped from fire hydrants and sprinkled for construction purposes is prohibited.

C. Stage III, Mandatory Compliance; Water Warning: When implemented pursuant to subsection [13.06.040B](#) of this chapter and noticed pursuant to subsection [13.06.040C](#) of this chapter, the following restrictions, in addition to all elements of stages I and II, shall apply:

1. All outdoor irrigation of vegetation shall occur only on designated days using handheld hoses, drip irrigation, or handheld buckets and is prohibited between the hours of twelve o'clock (12:00) noon and eight o'clock (8:00) P.M.

Exemption: Permanently installed automatic sprinkler systems may be used on designated irrigation days but are prohibited between the hours of twelve o'clock (12:00) noon and eight o'clock (8:00) P.M.

2. The watering of golf tee areas is prohibited except with treated wastewater or reused water.

D. Stage IV, Mandatory Compliance; Water Emergency: Pursuant to California Water Code section 350 et seq., the city council may declare a water shortage emergency upon its determination that the ordinary demands of city water users cannot be satisfied without depleting the city water supply to a point of insufficient water for human consumption, sanitation and fire protection. When implemented pursuant to subsection [13.06.040B](#) of this chapter and noticed pursuant to subsection [13.06.040C](#) of this chapter, the following restrictions, in addition to all elements of stages I, II and III, shall apply:

1. All outdoor irrigation of vegetation shall be allowed only between the hours of eight o'clock (8:00) P.M. and twelve o'clock (12:00) midnight on designated irrigation days.
2. The washing of automobiles, trucks, trailers, boats, airplanes, and other types of mobile equipment not occurring upon the immediate premises of commercial car washes and commercial service stations and not in the immediate interest of the public health or safety is prohibited.

3. The washing of automobiles, trucks, trailers, boats, airplanes, or other types of mobile equipment upon the immediate premises of commercial car washes and commercial service stations shall occur only between the hours of twelve o'clock (12:00) noon and six o'clock (6:00) P.M.
4. Commercial nurseries and commercial farmers using city water shall water only on designated irrigation days between the hours of ten o'clock (10:00) A.M. and six o'clock (6:00) P.M. and shall use only handheld hoses, drip irrigation systems, or handheld buckets.
5. The filling, refilling, or adding of water to uncovered swimming or wading pools and spas is prohibited at any time of day or night.
6. The operation of any ornamental fountain or similar structure is prohibited.
7. The issuance of new service connections and meters is prohibited. (Ord. 2151 § 1, 1991)

13.06.090: RELIEF FROM COMPLIANCE:

A city water user may file a request for relief from any provision of this chapter. The city manager shall review all requests and hold a hearing with each applicant. The city manager may grant relief from the provisions of this chapter if he determines that special circumstances make compliance not reasonably possible, or that the restrictions herein would either:

- A. Cause an unnecessary and undue hardship to the water user or the public; or
- B. Cause an emergency condition affecting the health, sanitation, fire protection or safety of the water user or of the public.

Such relief may be granted only upon written request to the city. Upon granting such relief, the city manager may impose any conditions he determines to be just and proper. The city manager shall make his determination within fourteen (14) days of receipt of the request for relief and shall inform the applicant of the decision in writing.

An applicant shall have the right to appeal the city manager's decision regarding his or her application to the city council or its designee. The appeal must be in writing and received by the city within ten (10) days of the date of the city manager's written decision. The appeal shall be heard by the city council or its designee within a reasonable period of time from the date the appeal is filed. The city shall provide written notice to the applicant of the time and date of the hearing. The city council or its designee, at its discretion, may affirm, reverse or modify the city manager's decision and impose any

conditions it deems proper. The decision of the city council shall be final. (Ord. 2151 § 1, 1991)

13.06.100: FAILURE TO COMPLY:

Violation by any customer of the water use prohibitions of this chapter shall be penalized as follows:

- A. **First Violation; Notice Of Noncompliance:** The city manager is authorized and directed to issue a written notice of noncompliance to any water user who, in the reasonable judgment of the city manager, has failed or refused in a significant way to comply with those water use curtailment provisions of this chapter currently in effect. Any such notice of violation shall specify the time, place and manner of noncompliance, and shall specify a reasonable period to achieve compliance. Any notice of noncompliance shall be directed to the customer of record for the premises where the noncompliance was observed. Delivery may be through regular mail or by personal delivery with a declaration of delivery returned to the city manager.
- B. **Second Violation; Warning Of Penalties:** For a second violation by any customer of the water use curtailment provisions of this chapter currently in effect, a written warning notice of the future imposition of penalties on the customer's water bill shall be issued. Any such warning notice shall specify the time, place and manner of noncompliance and shall require compliance within two (2) days. Any warning notice shall be directed to the customer of record for the premises where the violation has occurred. Delivery will be made by personal delivery with a declaration of delivery returned to the city manager.
- C. **Third Violation; Imposition Of Penalties:**
1. For a third violation by any customer of this chapter, a citation shall be issued and a surcharge imposed on the customer's next regular water bill. The surcharge shall consist of a percentage of the customer's commodity charge as shown on the most recent water bill, based upon the water conservation stage then in effect at the time of the most recent violation. The penalty surcharge for each stage is shown below:

Stage II		25 percent
Stage III		50 percent
Stage IV		75 percent

As an example, if a water user's most recent commodity charge is twenty five dollars (\$25.00), a third violation while the city is in stage III would result in the imposition of a twelve dollar fifty cent (\$12.50) surcharge.

2. If a water customer cited for a third violation fails or refuses to comply with the requirements of this chapter or to pay any outstanding water bills including surcharges, the city manager is hereby granted discretionary authority pursuant to California Water Code section 375 to cause a flow restricting device to be installed at the meter to reduce water availability to the customer's service address. Pursuant to California Water Code section 35423, if installation of a flow restrictor is infeasible, impractical or is unlikely to induce compliance with this chapter, the city manager may authorize a shutoff of service to the premises involved. (Ord. 2151 § 1, 1991)

13.06.110: HEARING REGARDING VIOLATIONS:

- A. Any customer receiving notice of a second or subsequent violation pursuant to section [13.06.100](#) of this chapter shall have a right to a hearing by the city manager within fifteen (15) days of mailing or other delivery of the notice of violation.
- B. The customer's written request for a hearing within the fifteen (15) day period shall automatically stay the imposition of monetary penalties on the customer's water bill until the city manager renders his decision. The decision of the city manager shall be final and not subject to further appeal pursuant to this code. (Ord. 2751, 2011)

13.06.120: CITY MANAGER DELEGATION:

The city manager may delegate all duties and responsibilities hereunder. (Ord. 2151 § 1, 1991)

13.06.130: SEVERABILITY:

If any provision, section, subsection, sentence, clause, or phrase of this chapter, or the application of same to any person or set of circumstances is held to be unconstitutional, void, or invalid, such decision shall not affect the remaining portions of this chapter which

shall remain in full force and effect, and all provisions of this chapter are declared to be severable for that purpose. (Ord. 2151 § 1, 1991)

13.06.140: INCOMPATIBLE PROVISIONS:

To the extent any provision of this chapter is incompatible with or at variance with any prior adopted ordinance or resolution, the provisions of this chapter shall take precedence, and all prior ordinances and resolutions shall be interpreted to harmonize with and not change the provisions of this chapter. (Ord. 2151 § 1, 1991)

13.06.150: PUBLIC HEALTH AND SAFETY NOT TO BE AFFECTED:

Nothing in this chapter shall be construed to require the city to curtail the supply of water to any customer when such water is required by that customer to maintain an adequate level of public health or public safety. (Ord. 2151 § 1, 1991)

13.06.160: EXEMPTION FROM CALIFORNIA ENVIRONMENTAL QUALITY ACT:

The city council determines that the adoption of this chapter and implementation of the measures set forth herein are exempt from review under the California environmental quality act¹ because it is an action taken to mitigate or prevent a water shortage emergency, and to protect natural resources. The city council directs the city manager or his designee to prepare and file a notice of exemption as soon as possible following adoption of the ordinance codified in this chapter. (Ord. 2151 § 1, 1991)

Attachment 3: Adoption Resolution

RESOLUTION NO. 8225

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF REDLANDS
ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the "UWMP Act"), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan ("WSCP"); and

WHEREAS, the City of Redlands meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such WSCP; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, the City of Redlands has prepared a WSCP in accordance with the UWMP Act and SB X7-7 and, in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the City of Redlands' Water Conservation Plan, Ordinance Nos. 2151 and 2751; and

WHEREAS, in accordance with the UWMP Act, the City of Redlands has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a notice of a public hearing regarding the City of Redlands' WSCP was published within the jurisdiction of the City of Redlands on June 1, 2021, and June 8, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 15, 2021, at 6:00 P.M., or soon thereafter as the matter could be heard, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, the City of Redlands, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within City of Redlands' service area with regard to the preparation of the WSCP, encouraged community input regarding City of Redlands' WSCP; and

WHEREAS, the City Council of City of Redlands has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

WHEREAS, the City Council desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, THE CITY COUNCIL OF THE CITY OF REDLANDS HEREBY RESOLVE AS FOLLOWS:

Section 1. The City Council hereby finds and determines that the adoption of this Resolution is exempt from review and under the California Environmental Quality Act Guidelines Section 15061(b)(3) because it can be seen with certainty that this Water Shortage Contingency Plans will have no significant impact on the environment.

Section 2. The Water Shortage Contingency Plan is hereby adopted, as amended by any changes incorporated by the City Council as a result of input received at the public hearing and ordered filed with the City Clerk.

Section 3. The Municipal Utilities and Engineering Department Director ("MUED Director") is hereby authorized and directed to include a copy of this Resolution in the City of Redlands' WSCP.

Section 4. The MUED Director is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021.

Section 5. The MUED Director is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or county within which the City of Redlands provides water supplies no later than thirty (30) days after this adoption date.

Section 6. The MUED Director is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at the City of Redlands' offices during normal business hours and on the City of Redlands website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources.

Section 7. The MUED Director is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water

Code Section 10635(a) to any city or county within which the City of Redlands provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources.

Section 8. The MUED Director is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the City Council regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

ADOPTED, SIGNED AND APPROVED this 15th day of June, 2021.



Paul T. Barich, Mayor

ATTEST:


Jeanne Donaldson, City Clerk

I, Jeanne Donaldson, City Clerk of the City of Redlands, hereby certify that the foregoing resolution was duly adopted by the City Council at a regular meeting thereof held on the 15th day of June, 2021

AYES: Councilmembers Tejada, Davis, Guzman-Lowry; Mayor Barich
NOES: None
ABSENT: Councilmember Foster
ABSTAINED: None


Jeanne Donaldson, City Clerk

E

2020 IRUWMP Part 4 City of Rialto Appendix E



E-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 5 Part 1 Chapter 3
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	Part 2 Chapter 5 Executive Summary
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	Part 2 Chapter 5
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	Part 1 Chapter 1
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	Part 4 Appendix E-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 5 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 5 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 5 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 3 Chapter 3 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 5 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 5 Section 2.1.2
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	Part 2 Chapter 5 Section 2.2.1
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	Part 2 Chapter 5 Section 2.2
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	Part 2 Chapter 5 Section 2.1.2
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	Part 2 Chapter 5 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 5 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 5 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 5 Section 3.2
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
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	N/A
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	Part 4 Appendix E-7
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	Part 4 Appendix E-7
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	Part 2 Chapter 5 Section 4 Part 2 Chapter 5 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 5 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 5 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 5 Section 4.6.2 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 5 Section 4.7 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 5 Section 4.2
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	Part 2 Chapter 5 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 5 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 5 Section 4.2
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	Part 2 Chapter 5 Section 4.7
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	Part 2 Chapter 5 Section 4.6
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)	Part 2 Chapter 5 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 5 Section 4.5.1
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)	Part 2 Chapter 5 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 5 Section 4.5 Part 1 Chapter 3
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 5 Section 4.5
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	Part 2 Chapter 5 Section 4.6.2 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 5 Section 4.8 Part 4 Appendix E-6
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	Water Supply Reliability Assessment	Part 2 Chapter 5 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 5 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 5 Section 6
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	Part 2 Chapter 5 Section 6
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	Part 2 Chapter 5 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 5 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 5 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix E-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix E-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix E-9 Section 10.0
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	Part 4 Appendix E-9 Section 2.0
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	Part 4 Appendix E-9 Section 2.0
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	Part 4 Appendix E-9 Section 3.0
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	Part 4 Appendix E-9 Section 3.0
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	Part 4 Appendix E-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix E-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix E-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix E-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix E-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix E-9 Section 4.4&4.5
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	Part 4 Appendix E-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix E-9 Section 5.0
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	Part 4 Appendix E-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix E-9 Section 7.0
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	Part 4 Appendix E-9 Section 7.1
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	Part 4 Appendix E-9 Section 7.2
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	Part 4 Appendix E-9 Section 8.0
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	Part 4 Appendix E-9 Section 8.0
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	Part 4 Appendix E-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix E-9 Section 9.0
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	Part 4 Appendix E-9 Section 4.0
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	Part 4 Appendix E-9 Section 11.0
Section 8.14	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	Part 4 Appendix E-9 Section 11.0
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
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	Part 2 Chapter 5 Section 8
Chapter 5	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	Part 2 Chapter 5 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 5 Section 9 Part 4 Appendix E-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9 Part 4 Appendix E-2 Public Outreach
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 5 Section 9
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	Part 2 Chapter 5 Section 9

E-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

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MARIANA GARCIA
CITY OF RIALTO CITY CLERK
290 W RIALTO AVE
RIALTO, CA 92376

SBS# 3476526

COPY OF NOTICE

Notice Type: GPNSB GOVERNMENT PUBLIC NOTICE-SB

Ad Description
2020 Upper Santa Ana River Integrated Regional Urban Water Management Plan (IRUWMP)

To the right is a copy of the notice you sent to us for publication in the SAN BERNARDINO COUNTY SUN. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

06/07/2021 , 06/14/2021

The charge(s) for this order is as follows. An invoice will be sent after the last date of publication. If you prepaid this order in full, you will not receive an invoice.

Publication	\$255.20
Total	\$255.20

NOTICE OF PUBLIC HEARING
The City Council of the City of Rialto and the Rialto Utility Authority will hold a public hearing on Tuesday, June 22, 2021 at 6:30 P.M. via virtual meeting, to receive public comment regarding the *2020 Upper Santa Ana River Integrated Regional Urban Water Management Plan* (IRUWMP) as it applies to Rialto. The intent with the IRUWMP is to create a comprehensive planning document for the region while also meeting all of the requirements of both the Urban Water Management Planning Act (Division 6 Part 2.6 of the California Water Code §§10608 – 10656) and the Integrated Regional Water Management Planning Act (Division 6 Part 2.2 of the California Water Code §§10530 – 10546). A copy of the IRUWMP has been made available at City Hall and the City Clerk's Office. Members of the public are provided opportunities for public comment by submitting written comment to cityclerk@rialtoca.gov or provided oral comments via zoom (5 min limit). Attend the Meeting via Zoom Webinar: <https://zoom.us/j/94152325262>. You must sign up by 6:30 PM the night of the meeting, go to <https://www.yourrialto.com/635/VIRTUAL-CITY-COUNCIL-MEETINGS>. Comments and opinions may be submitted to the City Clerk's Office at the address above.
(s) Barbara A. McGee
City Clerk
6/7, 6/14/21

SBS-3476526#

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E-3: Resolutions

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RUA RESOLUTION NO. 03-21

A RESOLUTION OF THE UTILITY AUTHORITY OF THE CITY OF RIALTO, CALIFORNIA, ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN

WHEREAS, the Rialto Utility Authority and other water managers in the upper Santa Ana River Watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, sixteen (16) agencies in the upper Santa Ana River watershed decided to develop the region’s first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the Rialto Utility Authority participated in the development of the 2015 IRWMPs and adopted the 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five (5) years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal

1 purposes to more than 3,000 customers or supplying more than three thousand (3,000) acre feet of water
2 annually, prepare an Urban Water Management Plan (UWMP); and

3 **WHEREAS**, the Rialto Utility Authority meets the definition of an urban water supplier for
4 purposes of the UWMP Act; and

5 **WHEREAS**, the UWMP Act requires that said UWMP be updated and adopted at least once
6 every five years on or before July 1, in years ending in six and one; and

7 **WHEREAS**, the UWMP Act allows for water suppliers to work together to develop a
8 cooperative regional UWMP and in 2015, the San Bernardino Valley Regional UWMP (RUWMP) was
9 prepared by ten different water suppliers to collectively meet the requirements of the UMWP Act; and

10 **WHEREAS**, the Rialto Utility Authority participated in the 2015 RUWMP; and

11 **WHEREAS**, both the IRWMP and RUWMP are both due to be updated; and

12 **WHEREAS**, the Rialto Utility Authority and nineteen other water suppliers and water
13 management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and
14 the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana
15 River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of
16 its kind in California; and

17 **WHEREAS**, valuable synergies are realized by combining these two documents into one,
18 including reduced preparation costs, a single integrated dataset, a consolidated reference document,
19 enhanced collaboration, and more robust integrated planning and decision-making; and

20 **WHEREAS**, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional
21 Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 –
22 Individual Agency Supporting Information; and

23 **WHEREAS**, as a participant in the 2020 IRUWMP, the Rialto Utility Authority has prepared
24 those portions of the IRUWMP applicable to the City of Rialto and the Rialto Utility Authority to meet
25 the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which
26 include Part 1, Part 2 Chapter 5: City of Rialto UWMP, Part 3, and Part 4 Appendix E: City of Rialto
27 Supporting Information; and

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1 **WHEREAS**, in accordance with applicable legal requirements, the Rialto Utility Authority has
2 undertaken certain coordination, notice, public involvement, public comment, and other procedures in
3 relation to the 2020 IRUWMP; and

4 **WHEREAS**, in accordance with the UWMP Act, the Rialto Utility Authority has prepared the
5 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in
6 cooperation with other governmental agencies, and has utilized and relied upon industry standards and
7 the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR
8 Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its
9 related appendices and the 2016 IRWM Guidelines; and

10 **WHEREAS**, in accordance with applicable law, a Notice of a Public Hearing regarding the
11 Rialto Utility Authority’s adoption of Part 1, Part 2 Chapter 5, Part 3 and Part 4 Appendix E of the 2020
12 IRUWMP was published within the jurisdiction of the City of Rialto and Rialto Utility Authority on
13 June 7, 2021, and June 14, 2021; and

14 **WHEREAS**, in accordance with applicable law, including but not limited to Water Code
15 sections 10608.26 and 10642, a public hearing was held on June 22, 2021 at 6:30 PM, or soon thereafter,
16 in the Council Chambers of the Rialto Utility Authority, at 150 South Palm Avenue, Rialto, CA 92376,
17 in order to provide members of the public and other interested entities with the opportunity to be heard
18 in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

19 **WHEREAS**, pursuant to said public hearing on the 2020 IRUWMP, the Rialto Utility Authority,
20 among other things, encouraged the active involvement of diverse social, cultural, and economic
21 members of the community within the Rialto Utility Authority’s service area with regard to the
22 preparation of the Plan, encouraged community input regarding the 2020 IRUWMP; and

23 **WHEREAS**, the Rialto Utility Authority has reviewed and considered the purposes and
24 requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and the
25 documentation contained in the administrative record in support of the 2020 IRUWMP, and has
26 determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally
27 sufficient; and
28

1 **WHEREAS**, the Rialto Utility Authority desires to adopt Part 1, Part 2 Chapter 5, Part 3 and
2 Part 4, Appendix E of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

3 **NOW, THEREFORE, THE RIALTO UTILITY AUTHORITY OF THE CITY OF**
4 **RIALTO DOES HEREBY FIND, DETERMINE, AND RESOLVE AS FOLLOWS:**

5 **Section 1:** 1. Part 1, Part 2 Chapter 5, Part 3 and Part 4 Appendix E of the 2020 IRUWMP is
6 hereby adopted as amended by changes incorporated by the City of Rialto as a result of input received
7 (if any) at the public hearing and ordered filed with the Secretary of the Rialto Utility Authority;

8 **Section 2:** The Utilities Manager is hereby authorized and directed to include a copy of this
9 Resolution in the City of Rialto’s 2020 IRUWMP;

10 **Section 3:** The Utilities Manager is hereby authorized and directed, in accordance with
11 Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the Rialto Utility
12 Authority; portions of the 2020 IRUWMP to DWR no later than July 1, 2021;

13 **Section 4:** The Utilities Manager is hereby authorized and directed, in accordance with
14 Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library,
15 and any city or county within which the Rialto Utility Authority; provides water supplies no later than
16 thirty (30) days after this adoption date;

17 **Section 5:** The Utilities Manager is hereby authorized and directed, in accordance with
18 Water Code section 10645, to make the 2020 IRUWMP available for public review at The City of Rialto
19 offices during normal business hours and on Rialto Utility Authority; website no later than thirty (30)
20 days after filing a copy of the 2020 IRUWMP with DWR;

21 **Section 6:** The Utilities Manager is hereby authorized and directed, in accordance with
22 Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water
23 Code Section 10635(a) to any city or county within which the Rialto Utility Authority; provides water
24 supplies no later than sixty (60) days after submitting a copy to DWR;

25 **Section 7:** The Utilities Manager is hereby authorized and directed to implement the 2020
26 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the Rialto
27 Utility Authority; regarding the necessary budgets, procedures, rules, regulations, or further actions to
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1 carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the
2 regional partners.

3 **Section 8:** That the Secretary of the Rialto Utility Authority; shall certify to the adoption of this
4 Resolution.

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PASSED APPROVED AND ADOPTED this 22 day of June, 2021.

Deborah Robertson
DEBORAH ROBERTSON, President

ATTEST:

Barbara A. McGee
BARBARA A. McGEE, Board Secretary

APPROVED AS TO FORM:

Eric S. Vail
ERIC S. VAIL, Board Counsel

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STATE OF CALIFORNIA)
COUNTY OF SAN BERNARDINO) ss
CITY OF RIALTO)

I, Barbara A. McGee, Board Secretary of the Rialto Utility Authority, do hereby certify that the foregoing Resolution No. 03-21 was duly passed and adopted at a regular meeting of the Rialto Utility Authority of the City of Rialto held on the 22nd day of June, 2021.

Upon motion of Board Member Trujillo, seconded by Board Member Carrizales, the foregoing Resolution No. 03-21 was duly passed and adopted.

Vote on the motion:

AYES: Mayor Robertson, Mayor Pro Tem Scott, Council Member Trujillo, Carrizales and Perez

NOES: None

ABSENT: None

IN WITNESS WHEREOF, I have hereunto set my hand and the Official Seal of the City of Rialto this 22nd day of June, 2021.

Barbara A. McGee
BARBARA A. MCGEE SECRETARY

RESOLUTION NO. 7735

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF RIALTO, CALIFORNIA, ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN

WHEREAS, the City of Rialto and other water managers in the upper Santa Ana River Watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, sixteen (16) agencies in the upper Santa Ana River watershed decided to develop the region’s first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the City of Rialto participated in the development of the 2015 IRWMPs and adopted the 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal

1 purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually,
2 prepare an Urban Water Management Plan (UWMP); and

3 **WHEREAS**, the City of Rialto meets the definition of an urban water supplier for purposes of
4 the UWMP Act; and

5 **WHEREAS**, the UWMP Act requires that said UWMP be updated and adopted at least once
6 every five years on or before July 1, in years ending in six and one; and

7 **WHEREAS**, the UWMP Act allows for water suppliers to work together to develop a
8 cooperative regional UWMP and in 2015, the San Bernardino Valley Regional UWMP (RUWMP) was
9 prepared by ten different water suppliers to collectively meet the requirements of the UWMP Act; and

10 **WHEREAS**, the City of Rialto participated in the 2015 RUWMP; and

11 **WHEREAS**, both the IRWMP and RUWMP are both due to be updated; and

12 **WHEREAS**, the City of Rialto and nineteen other water suppliers and water management
13 organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP
14 into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed
15 Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in
16 California; and

17 **WHEREAS**, valuable synergies are realized by combining these two documents into one,
18 including reduced preparation costs, a single integrated dataset, a consolidated reference document,
19 enhanced collaboration, and more robust integrated planning and decision-making; and

20 **WHEREAS**, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional
21 Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 –
22 Individual Agency Supporting Information; and

23 **WHEREAS**, as a participant in the 2020 IRUWMP, the City of Rialto has prepared those
24 portions of the IRUWMP applicable to the City of Rialto to meet the requirements of the IRWM Act,
25 the UWMP Act and other applicable laws and regulations which include Part 1, Part 2 Chapter 5: City of
26 Rialto UWMP, Part 3, and Part 4 Appendix E: City of Rialto Supporting Information; and

1 **WHEREAS**, in accordance with applicable legal requirements, the City of Rialto has undertaken
2 certain coordination, notice, public involvement, public comment, and other procedures in relation to the
3 2020 IRUWMP; and

4 **WHEREAS**, in accordance with the UWMP Act, the City of Rialto has prepared the 2020
5 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in
6 cooperation with other governmental agencies, and has utilized and relied upon industry standards and
7 the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR
8 Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its
9 related appendices and the 2016 IRWM Guidelines; and

10 **WHEREAS**, in accordance with applicable law, a Notice of a Public Hearing regarding the City
11 of Rialto’s adoption of Part 1, Part 2 Chapter 5, Part 3 and Part 4 Appendix E of the 2020 IRUWMP was
12 published within the jurisdiction of the City of Rialto on June 7, 2021, and June 14, 2021; and

13 **WHEREAS**, in accordance with applicable law, including but not limited to Water Code
14 sections 10608.26 and 10642, a public hearing was held on June 22, 2021 at 6:30 PM, or soon thereafter,
15 in the Council Chambers of the City of Rialto, at 150 South Palm Avenue, Rialto, CA 92376, in order to
16 provide members of the public and other interested entities with the opportunity to be heard in
17 connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

18 **WHEREAS**, pursuant to said public hearing on the 2020 IRUWMP, the City of Rialto, among
19 other things, encouraged the active involvement of diverse social, cultural, and economic members of
20 the community within the City of Rialto’s service area with regard to the preparation of the Plan,
21 encouraged community input regarding the 2020 IRUWMP; and

22 **WHEREAS**, the City has reviewed and considered the purposes and requirements of the IRWM
23 Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation contained in the
24 administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and
25 conclusions set forth in the 2020 IRUWMP are legally sufficient; and

26 **WHEREAS**, the City of Rialto desires to adopt Part 1, Part 2 Chapter 5, Part 3 and Part 4,
27 Appendix E of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.
28

1 **NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF RIALTO DOES**
2 **HEREBY FIND, DETERMINE, AND RESOLVE AS FOLLOWS:**

3 **Section 1:** 1. Part 1, Part 2 Chapter 5, Part 3 and Part 4 Appendix E of the 2020 IRUWMP is
4 hereby adopted as amended by changes incorporated by the City of Rialto as a result of input received
5 (if any) at the public hearing and ordered filed with the City Clerk of the City of Rialto;

6 **Section 2:** The Utilities Manager is hereby authorized and directed to include a copy of this
7 Resolution in the City of Rialto’s 2020 IRUWMP;

8 **Section 3:** The Utilities Manager is hereby authorized and directed, in accordance with
9 Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the City of Rialto
10 portions of the 2020 IRUWMP to DWR no later than July 1, 2021;

11 **Section 4:** The Utilities Manager is hereby authorized and directed, in accordance with
12 Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library,
13 and any city of county within which the City of Rialto provides water supplies no later than thirty (30)
14 days after this adoption date;

15 **Section 5:** The Utilities Manager is hereby authorized and directed, in accordance with
16 Water Code section 10645, to make the 2020 IRUWMP available for public review at The City of Rialto
17 offices during normal business hours and on City of Rialto website no later than thirty (30) days after
18 filing a copy of the 2020 IRUWMP with DWR;

19 **Section 6:** The Utilities Manager is hereby authorized and directed, in accordance with
20 Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water
21 Code Section 10635(a) to any city or county within which The City of Rialto provides water supplies no
22 later than sixty (60) days after submitting a copy to DWR;

23 **Section 7:** The Utilities Manager is hereby authorized and directed to implement the 2020
24 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the City of
25 Rialto regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the
26 effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional
27 partners.
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1 **Section 8:** That the City Clerk of the City of Rialto shall certify to the adoption of this
2 Resolution.

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WHEREFORE, this Resolution is passed, approved and adopted this 22nd day of June, 2021.

DEBORAH [Signature] , Mayor

ATTEST:

BARBARA A. MOORE, City Clerk

APPROVED AS TO FORM:

ERIC VA [Signature]

1 **STATE OF CALIFORNIA**)
2 **COUNTY OF SAN BERNARDINO**) ss
3 **CITY OF RIALTO**)

4 I, Barbara A. McGee, City Clerk of the City of Rialto, do hereby certify that the foregoing
5 Resolution No. 7735 was duly passed and adopted at a regular meeting of the City Council of the City
6 of Rialto held on the 22nd day of June, 2021.

7 Upon motion of Councilmember Trujillo, seconded by Councilmember Carrizales, the foregoing
8 Resolution No. 7735 was duly passed and adopted.

9 Vote on the motion:

10 AYES: Mayor Robertson, Mayor Pro Tem Scott, Council Member Trujillo, Carrizales and Perez

11 NOES: None

12 ABSENT: None

13 IN WITNESS WHEREOF, I have hereunto set my hand and the Official Seal of the City of
14 Rialto this 23rd day of June, 2021.

15
16
17 Barbara A. McGee
18 BARBARA A. MCGEE, CITY CLERK

E-4: Agreements

Not Used. The City of Rialto does not have any relevant Agreements referenced in their UWMP. See Part 3 Appendix B for Regional agreements that apply to the City of Rialto.

E-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information			
Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	Rialto City Of	1270917594	3/22/2021 8:14:03 AM

Boundary Information		
Census Year	Boundary Filename	Internal Boundary ID
1990	Rialto City.kml	681
2000	Rialto City.kml	681
2010	Rialto City.kml	681
1990	Rialto City.kml	681
2000	Rialto City.kml	681
2010	Rialto City.kml	681
1990	Rialto City.kml	681
2000	Rialto City.kml	681
2010	Rialto City.kml	681

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period:

Year beginning baseline period range:

Year ending baseline period range¹:

5-year baseline period

Year beginning baseline period range:

Year ending baseline period range²:

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons per Connection			
Year	Census Block Level	Number of Connections *	Persons per Connection
	Total Population		
1990	43,573	<input type="text"/>	4.55
1991	-	-	4.55
1992	-	-	4.55
1993	-	-	4.55
1994	-	-	4.55
1995	-	-	4.55
1996	-	-	4.55
1997	-	-	4.55
1998	-	-	4.55
1999	-	-	4.55
2000	50,267	<input type="text"/>	4.55
2001	-	-	4.55
2002	-	-	4.55
2003	-	-	4.55
2004	-	-	4.55
2005	-	-	4.55
2006	-	-	4.55
2007	-	-	4.55
2008	-	-	4.55
2009	-	-	4.55
2010	54,389	<input type="text" value="11942"/>	4.55
2011	-	-	4.55
2012	-	-	4.55
2013	-	-	4.55
2014	-	-	4.55
2015	-	-	4.55
2020	-	-	4.55 **

Population Using Persons-Per-Connection				
Year		Number of Connections *	Persons per Connection	Total Population
10 to 15 Year Baseline Population Calculations				
Year 1	1998	<input type="text"/>	4.55	
Year 2	1999	<input type="text"/>	4.55	
Year 3	2000	<input type="text"/>	4.55	
Year 4	2001	<input type="text"/>	4.55	
Year 5	2002	<input type="text"/>	4.55	
Year 6	2003	<input type="text"/>	4.55	
Year 7	2004	<input type="text"/>	4.55	
Year 8	2005	<input type="text"/>	4.55	
Year 9	2006	<input type="text"/>	4.55	
Year 10	2007	<input type="text"/>	4.55	
5 Year Baseline Population Calculations				
Year 1	2003	<input type="text"/>	4.55	
Year 2	2004	<input type="text"/>	4.55	
Year 3	2005	<input type="text"/>	4.55	
Year 4	2006	<input type="text"/>	4.55	
Year 5	2007	<input type="text"/>	4.55	
2020 Compliance Year Population Calculations				
	2020	<input type="text" value="12265"/>	4.55 **	55,860

Hide Print Confirmation

QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELo QUESTIONS / ISSUES? CONTACT THE MWELo HELP DESK

E-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610038	RIALTO, CITY OF	12,265	8,929
Total:		12,265	8,929

2-2 | Public Water Systems

STATUS: Published

NOTES: -

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS: Published

NOTES: -

Wholesale Water Supplier Name
San Bernardino Valley Municipal Water District

3-1R | Current & Projected Population

STATUS:

NOTES: -

Population Served	2020	2025	2030	2035	2040	2045
Total	55,860	59,669	63,738	68,084	71,064	74,175
Total	55,860	59,669	63,738	68,084	71,064	74,175

4-1R | Actual Demands for Water

STATUS:

NOTES: -

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Residential	Drinking Water	6,112
Commercial	Commercial	Drinking Water	1,477
Institutional/Governmental	Government	Drinking Water	727
Sales/Transfers/Exchanges to Other Agencies	Sales to Other Agencies	Drinking Water	-
Losses	Water Losses	Drinking Water	614
Total:			8,929

4-2R | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Residential	6,528	6,945	7,362	7,629	7,897
Commercial	Commercial	1,577	1,678	1,779	1,843	1,908
Institutional/Governmental	Government	776	826	876	907	939
Losses	Water Losses	711	756	801	830	860
Total:		9,593	10,205	10,817	11,210	11,603

4-3R | Total Gross Water Use

STATUS: Published

NOTES: -

	2020	2020	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	8,929	9,593	10,205	10,817	11,210	11,603
Recycled Water Demand* From Table 6-4R	-	10	10	10	10	10
Total Water Use:	8,929	9,603	10,215	10,827	11,220	11,613

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES:

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	591
1	2017	434
1	2018	597
1	2019	330
1	2020	614 (Estimate)

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES: -

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS: Published

NOTES: Direct input from table 14-8 on page 324 of 2015 RUWMP

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	1998	2007	214	171
5 Year	2003	2007	217	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES: -

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
143	0	0	0	0	0	0	Yes

*All values are in Gallons per Capita per Day (GPCD)

6-1R | Groundwater Volume Pumped

STATUS:

NOTES:

Select One						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Bunker Hill	1,963	514	1,268	912	1,508
Alluvial Basin	Bunker Hill (via Baseline Feeder)	1,478	1,625	1,827	1,740	1,668
Alluvial Basin	Lytle	1,332	2,130	2,143	1,252	999
Alluvial Basin	Rialto-Colton	1,113	1,456	1,818	1,543	2,015
Alluvial Basin	Riverside-Arlington	1,389	1,608	694	1,110	1,156
Total:		7,275	7,333	7,749	6,557	7,346

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
City of Rialto	Estimated	3,479	City of Rialto	Rialto WWTP	Yes	Yes
Total:		3,479				

6-3R | Wastewater Treatment & Discharge Within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Plant Treats Wastewater Generated Outside the Service Area	Treatment Level	2020 Volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Rialto WWTP	Rialto Drain	Santa Ana River		River or creek outfall	Yes	Tertiary	8,115	8,115	-	-	-
Total:							8,115	8,115	-	-	-

6-4R | Recycled Water Direct Beneficial Uses Within Service Area

STATUS:

NOTES:

The supplier will complete the table.										
Name of Supplier Producing (Treating) the Recycled Water:			Rialto Water Services							
Name of Supplier Operating the Recycled Water Distribution System:			Rialto Water Services							
Supplemental Volume of Water Added in 2020:										
Source of 2020 Supplemental Water:										
Beneficial Use Type	Potential Beneficial Uses of Recycled Water	Amount of Potential Uses of Recycled Water	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045
Landscape Irrigation (excludes golf courses)	Landscape Irrigation	10 AFY	Interstate 10 Median	Secondary, Disinfected - 23	-	10	10	10	10	10
Golf Course Irrigation										
Commercial Use										
Industrial Use										
Geothermal and Other Energy Production										
Seawater Intrusion Barrier										
Recreational Impoundment										
Wetlands or Wildlife Habitat										
Groundwater Recharge (IPR)*										
Surface Water Augmentation (IPR)*										
Direct Potable Reuse										
Total:					-	10	10	10	10	10
Internal Reuse (Not included in Statewide Recycled Water Volume).										

*IPR - Indirect Potable Reuse

6-8R | Actual Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	1,508	Drinking Water	
Groundwater (not desalinated)	Bunker Hill (via Baseline Feeder)	1,668	Drinking Water	
Groundwater (not desalinated)	Lytle	999	Drinking Water	
Groundwater (not desalinated)	Rialto-Colton	2,015	Drinking Water	
Groundwater (not desalinated)	Riverside-Arlington	1,156	Drinking Water	
Surface Water (not desalinated)	Lytle Creek	1,583	Drinking Water	
Recycled Water	Rialto WWTP	-	Recycled Water	
Total:		8,929		-

6-8DS | Source Water Desalination

STATUS:

NOTES:

Neither groundwater nor surface water are reduced in salinity prior to distribution. The supplier will not complete the table.

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	2,580		3,227		3,875		4,270		4,665	
Groundwater (not desalinated)	Bunker Hill (via Baseline Feeder)	2,500		2,500		2,500		2,500		2,500	
Groundwater (not desalinated)	Lytile	1,600		1,600		1,600		1,600		1,600	
Groundwater (not desalinated)	Rialto-Colton	1,528		1,557		1,586		1,614		1,642	
Purchased or Imported Water	State Water Project - Rialto Colton Groundwater Supplemental Supply	384		412		440		469		498	
Groundwater (not desalinated)	Riverside-Arlington	1,200		1,200		1,200		1,200		1,200	
Surface water (not desalinated)	Lytile Creek	1,241		1,241		1,241		1,241		1,241	
Recycled Water	Rialto WWTP	10		10		10		10		10	
	Total:	11,043	-	11,747	-	12,451	-	12,903	-	13,355	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	11,043	11,747	12,451	12,903	13,355
Demand Totals From Table 4-3R	9,603	10,215	10,827	11,220	11,613
Difference:	1,440	1,532	1,624	1,683	1,742

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	12,147	12,922	13,696	14,194	14,691
Demand Totals	10,563	11,236	11,910	12,342	12,775
Difference:	1,584	1,685	1,786	1,851	1,916

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES:

		2025	2030	2035	2040	2045
First Year	Supply Totals	12,147	12,922	13,696	14,194	14,691
	Demand Totals	10,563	11,236	11,910	12,342	12,775
Difference:		1,584	1,685	1,786	1,851	1,916
Second Year	Supply Totals	12,147	12,922	13,696	14,194	14,691
	Demand Totals	10,563	11,236	11,910	12,342	12,775
Difference:		1,584	1,685	1,786	1,851	1,916
Third Year	Supply Totals	12,147	12,922	13,696	14,194	14,691
	Demand Totals	10,563	11,236	11,910	12,342	12,775
Difference:		1,584	1,685	1,786	1,851	1,916
Fourth Year	Supply Totals	12,147	12,922	13,696	14,194	14,691
	Demand Totals	10,563	11,236	11,910	12,342	12,775
Difference:		1,584	1,685	1,786	1,851	1,916
Fifth Year	Supply Totals	12,147	12,922	13,696	14,194	14,691
	Demand Totals	10,563	11,236	11,910	12,342	12,775
Difference:		1,584	1,685	1,786	1,851	1,916

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	10,287
	Total Supplies	11,830
	Surplus/Shortfall without WSCP Action	1,543
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,543
	Resulting Percent Use Reduction from WSCP Action	0%
2022	Gross Water Use	10,752
	Total Supplies	12,365
	Surplus/Shortfall without WSCP Action	1,613
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,613
	Resulting Percent Use Reduction from WSCP Action	0%
2023	Gross Water Use	11,217
	Total Supplies	12,900
	Surplus/Shortfall without WSCP Action	1,683
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,683
	Resulting Percent Use Reduction from WSCP Action	0%
2024	Gross Water Use	11,682
	Total Supplies	13,435
	Surplus/Shortfall without WSCP Action	1,752
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,752
	Resulting Percent Use Reduction from WSCP Action	0%
2025	Gross Water Use	12,147
	Total Supplies	13,969
	Surplus/Shortfall without WSCP Action	1,822
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	1,822
	Resulting Percent Use Reduction from WSCP Action	0%

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES: -

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Normal Conditions (Rialto Stage 1) - Normal conditions mean normal supply and distribution capacity is available.
2	Up to 20%	Water Alert (Rialto Stage 2) - Stage 2 means that the city may not be able to meet all water demands of all water customers, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 2 Water Alert as outlined in Section 12.20.022 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water consumption by a minimum twenty percent compared to their potable water consumption in the 2013 base year.
3	Up to 30%	Water Warning (Rialto Stage 3) - Stage 3 means that the city is not able to meet all water demands of all water customers, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 3 water warning as outlined in Section 12.20.023 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water use consumption by a minimum twenty-five percent compared to their potable water consumption in the 2013 base year.
4	Up to 40%	Water Emergency (Rialto Stage 4) - Stage 4 means that the city is experiencing a major failure of water supply or distribution, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 4 water emergency as outline in Section 12.20.024 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water consumption by a minimum thirty percent compared to their potable water consumption in the 2013 base year. The use of water shall be limited to essential household, commercial, manufacturing or processing uses only, except where other uses may be allowed by permit.

5	Up to 50%	<p>Water Emergency (Rialto Stage 4) - Stage 4 means that the city is experiencing a major failure of water supply or distribution, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 4 water emergency as outline in Section 12.20.024 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water consumption by a minimum thirty percent compared to their potable water consumption in the 2013 base year. The use of water shall be limited to essential household, commercial, manufacturing or processing uses only, except where other uses may be allowed by permit.</p>
6	>50%	<p>Water Emergency (Rialto Stage 4) - Stage 4 means that the city is experiencing a major failure of water supply or distribution, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 4 water emergency as outline in Section 12.20.024 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water consumption by a minimum thirty percent compared to their potable water consumption in the 2013 base year. The use of water shall be limited to essential household, commercial, manufacturing or processing uses only, except where other uses may be allowed by permit.</p>
<p>¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.</p>		

8-2 | Demand Reduction Actions

STATUS:

NOTES: -

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
All	Expand Public Information Campaign	0-20%		No
1	CII - Restaurants may only serve water upon request	0-1%	All restaurants and food establishments are requested not to serve water to their customers unless specifically requested by the customer.	No
1	Landscape - Limit landscape irrigation to specific times	0-5%	Watering with automatic sprinklers should be done between 8 pm and 6 am and that hand watering and non automatic sprinklers should be done between 6 pm and 8 am. Drip irrigation is exempt from this recommendation. Water being used during repair or maintenance of watering systems is exempt from this section.	No
1	Landscape - Other landscape restriction or prohibition	0-5%	The use of sprinklers for any type of irrigation during high winds, which divert a significant amount of water away from the intended landscaping, is prohibited.	Yes
1	Landscape - Other landscape restriction or prohibition	0-5%	The irrigation with potable water of landscape outside of newly constructed homes and buildings must be consistent with regulations or other requirements established by the California Buildings Standards Commission, as those regulations may be modified from time to time.	Yes
1	Landscape - Prohibit certain types of landscape irrigation	0-5%	The irrigation of potable water of ornamental turf on public street medians is prohibited. The term "median" shall mean the strip of land between street lanes.	Yes
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Water used which results in flooding or run-off should be prevented and controlled. Use of water for any purpose which results in flooding or run-off in gutters, driveways or streets is prohibited.	Yes

1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	No person shall knowingly permit water to leak from any facility, improvement or plumbing fixture on his/her/its premises; any such leak shall be repaired in a timely manner.	Yes
1	Other - Prohibit use of potable water for washing hard surfaces	0-1%	There shall be no application of water to sidewalks, walkways, driveways, parking areas, patios, porches, verandas, tennis courts or other paved, concrete or other hard surface areas, except that flammable or other similarly dangerous or unhealthy substances may be washed from said areas by direct hose flushing for the benefit of public health or safety.	Yes
1	Other - Require automatic shut of hoses	0-1%	Washing of automobiles, trucks, trailers, boats and other mobile equipment is prohibited unless done with a bucket or hand held device equipped with an automatic shut off trigger nozzle or device attached to it that causes it to cease dispensing water immediately when not in use. This section does not apply to the washing of the above-listed vehicles or mobile equipment when conducted at a commercial car or truck wash utilizing recirculating systems. Such washings are exempted from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning such as garbage trucks and vehicles used to transport food and perishables.	Yes
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water to be used to clean, fill, operate or maintain decorative fountains unless the water is from a recycled source.	Yes
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless such water is part of a recirculating system.	Yes
2	CII - Lodging establishment must offer opt out of linen service	0-1%	Operators of hotels and motels must provide guests with the option of choosing not to have towels and linens laundered daily and prominently display notice of this option.	Yes
2	CII - Restaurants may only serve water upon request	0-1%	All restaurants are prohibited from serving water to their customers except when specifically requested by the customer.	Yes

2	Landscape - Limit landscape irrigation to specific days	0-5%	All landscape irrigation shall be limited to no more than four (4) days per week for no more than ten (10) minutes per station per day. This provision does not apply to any landscape that has water-efficient devices that are operated properly. Water-efficient devices are drip irrigation systems and operational weather-based irrigation controllers. The term "week" is defined as Sunday through Saturday.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	The city shall screen all new applications for water service installations and shall limit water use to that essential for construction and testing of landscape plumbing. Limited landscaping for new development shall be allowed as approved by the city.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Irrigating turf or ornamental landscapes during or within forty-eight (48) hours following measurable precipitation in excess of one-quarter inch is prohibited	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	All customers shall repair all leaks within seventy-two (72) hours of notification by the city, actual notice by the customer, or other notice of such leak, unless other arrangements are made with the city administrator or his/her designee.	Yes
3B	CII - Other CII restriction or prohibition	0-1%	Water used for compaction, dust control, and other types of construction shall be by permit only and will be limited to conditions of the permit or may be prohibited as determined by the city administrator, or his/her designee.	Yes
3A	Landscape - Limit landscape irrigation to specific days	0-5%	All landscape irrigation with potable water shall be limited to no more than three days per week for no more than ten minutes per station per day. This provision does not apply to any landscape that has water-efficient devices that are operated properly. Water-efficient devices are drip irrigation systems and operational weather-based irrigation controllers. Week is defined as Sunday through Saturday.	Yes
3A	Landscape - Other landscape restriction or prohibition	0-5%	New water service shall be installed but water shall be used before occupancy for essential construction only and for testing of landscape irrigation systems. The installation of new landscaping for all new development/projects must be approved by the city.	Yes

3C	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of automobiles, trucks, trailers, boats, airplanes and other types of mobile equipment is prohibited. Washing of the above-listed vehicles or mobile equipment shall be done only at a commercial car wash where recirculating or recycled water is being utilized. Such washings are exempt from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning such as garbage trucks and vehicles used to transport food and perishables.	Yes
3A	Other water feature or swimming pool restriction	0-1%	Ornamental ponds, fountains, water displays, and artificial lakes shall not be filled or refilled.	Yes
3A	Other water feature or swimming pool restriction	0-1%	Swimming pools, hot tubs, and spas shall not be filled or refilled.	Yes
4	CII - Other CII restriction or prohibition	0-1%	No water shall be used for construction purposes unless they are using reclaimed water. All fire hydrant and construction meters shall be locked off or removed.	Yes
4	Landscape - Limit landscape irrigation to specific days	0-5%	Commercial nurseries shall water only between the hours of 11 p.m. and 6 a.m. and only with hand-held devices or with drip irrigation.	Yes
4	Landscape - Prohibit all landscape irrigation	0-5%	There shall be no watering of any lawn or landscaped area, except by use of reclaimed water.	Yes
4	Other	0-1%	The use of water shall be limited to essential household, commercial, manufacturing or processing uses only, except where other uses may be allowed by permit.	Yes

8-3R | Supply Augmentation & Other Actions

STATUS:

NOTES:

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
4	Other purchases	0-100%	Mutual aid agreements with the City of San Bernardino, Fontana Water, RHWC, and WVWD.

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of Rialto	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	City of Rialto		Reporting Period Start Date	1/1/2020
Water Delivery Product	Retail Potable Deliveries		Reporting Period End Date	12/30/2020
-	Urban Water Supplier Operational Control			
	Sum of all Water Management Process		Non-Consequential Hydropower	
	Total Utility		Hydropower	Net Utility
Volume of Water Entering Process (AF)	8929		0	8929
Energy Consumed (kWh)	5460187		0	5460187
Energy Intensity (kWh/AF)	611.5		0.0	611.5
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy		0.0 kWh
Data Quality Narrative	Total energy consumed in 2020 was quantified through meter data.			
Water Supply Narrative	The City of Rialto municipal water system obtains supplies from water delivered by SBVMWD through the baseline feeder, surface water, and groundwater from the Rialto-Colton Basin, the Riverside-North Basin, the Lytle Creek basin, and the Bunker Hill Basin			

E-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	15,089	Acre Feet (AF)
	2008 total volume of delivered recycled water	49	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	0.325	Percent
	Number of years in baseline period ^{1, 2}	10	Years
	Year beginning baseline period range	1998	
	Year ending baseline period range ³	2007	
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	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES: -

Method for Population Estimates	
No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
Yes	3. DWR Population Tool
No	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES: -

Year		Population
10 to 15 Year Baseline Population		
Year 1	1998	48,851
Year 2	1999	49,554
Year 3	2000	50,267
Year 4	2001	50,665
Year 5	2002	51,066
Year 6	2003	51,470
Year 7	2004	51,877
Year 8	2005	52,287
Year 9	2006	52,701
Year 10	2007	53,118
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	51,470
Year 2	2004	51,877
Year 3	2005	52,287
Year 4	2006	52,701
Year 5	2007	53,118
2020 Compliance Year Population		
2020		55,860

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>	
10 to 15 Year Baseline - Gross Water Use							
Year 1	1,998	11,890	1,256	0	-	10,634	
Year 2	1,999	13,050	1,479	0	-	11,571	
Year 3	2,000	14,182	1,559	0	-	12,623	
Year 4	2,001	14,131	1,495	0	-	12,636	
Year 5	2,002	13,277	1,517	0	-	11,760	
Year 6	2,003	12,059	1,006	0	-	11,053	
Year 7	2,004	12,531	856	0	-	11,675	
Year 8	2,005	15,465	752	0	-	14,713	
Year 9	2,006	14,577	551	0	-	14,026	
Year 10	2,007	12,734	733	0	-	12,001	
Year 11	0	0		0	-	0	
Year 12	0	0		0	-	0	
Year 13	0	0		0	-	0	
Year 14	0	0		0	-	0	
Year 15	0	0		0	-	0	
10 - 15 year baseline average gross water use:						12,269	
5 Year Baseline - Gross Water Use							
Year 1	2,003	12,059	1,006	0	-	11,053	
Year 2	2,004	12,531	856	0	-	11,675	
Year 3	2,005	15,465	752	0	-	14,713	
Year 4	2,006	14,577	551	0	-	14,026	
Year 5	2,007	12,734	733	0	-	12,001	
5 year baseline average gross water use:						12,694	
2020 Compliance Year - Gross Water Use							
2020	8,929			0	-	8,929	

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source			
Name of Source:		Rialto-Colton	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,998	4,325	4,325
Year 2	1,999	4,197	4,197
Year 3	2,000	4,073	4,073
Year 4	2,001	4,586	4,586
Year 5	2,002	5,320	5,320
Year 6	2,003	4,398	4,398
Year 7	2,004	2,867	2,867
Year 8	2,005	1,593	1,593
Year 9	2,006	947	947
Year 10	2,007	1,769	1,769
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,003	4,398	4,398
Year 2	2,004	2,867	2,867
Year 3	2,005	1,593	1,593
Year 4	2,006	947	947
Year 5	2,007	1,769	1,769
2020 Compliance Year - Water into Distribution System			
2020		2,015	2,015

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source				
Name of Source:		Riverside North		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,998	417		417
Year 2	1,999	863		863
Year 3	2,000	703		703
Year 4	2,001	974		974
Year 5	2,002	870		870
Year 6	2,003	198		198
Year 7	2,004	1,218		1,218
Year 8	2,005	790		790
Year 9	2,006	583		583
Year 10	2,007	690		690
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	198		198
Year 2	2,004	1,218		1,218
Year 3	2,005	790		790
Year 4	2,006	583		583
Year 5	2,007	690		690
2020 Compliance Year - Water into Distribution System				
2020		1,156		1,156

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source				
Name of Source:		Lytle Creek		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,998	3,084		3,084
Year 2	1,999	3,644		3,644
Year 3	2,000	3,683		3,683
Year 4	2,001	2,542		2,542
Year 5	2,002	2,729		2,729
Year 6	2,003	2,440		2,440
Year 7	2,004	2,689		2,689
Year 8	2,005	4,052		4,052
Year 9	2,006	2,929		2,929
Year 10	2,007	2,806		2,806
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	2,440		2,440
Year 2	2,004	2,689		2,689
Year 3	2,005	4,052		4,052
Year 4	2,006	2,929		2,929
Year 5	2,007	2,806		2,806
2020 Compliance Year - Water into Distribution System				
2020		999		999

SB X7-4A | Volume Entering the Distribution System(s)

A purchased or imported source.				
Name of Source:		Bunker Hill through Baseline Feeder		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,998	673		673
Year 2	1,999	153		153
Year 3	2,000	974		974
Year 4	2,001	1,486		1,486
Year 5	2,002	773		773
Year 6	2,003	1,760		1,760
Year 7	2,004	2,736		2,736
Year 8	2,005	4,921		4,921
Year 9	2,006	3,084		3,084
Year 10	2,007	2,377		2,377
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	1,760		1,760
Year 2	2,004	2,736		2,736
Year 3	2,005	4,921		4,921
Year 4	2,006	3,084		3,084
Year 5	2,007	2,377		2,377
2020 Compliance Year - Water into Distribution System				
2020		1,668		1,668

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source				
Name of Source:		Lytle Creek Surface Water		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,998	1,065		1,065
Year 2	1,999	1,461		1,461
Year 3	2,000	1,619		1,619
Year 4	2,001	1,305		1,305
Year 5	2,002	1,143		1,143
Year 6	2,003	726		726
Year 7	2,004	1,707		1,707
Year 8	2,005	1,210		1,210
Year 9	2,006	1,448		1,448
Year 10	2,007	1,161		1,161
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	726		726
Year 2	2,004	1,707		1,707
Year 3	2,005	1,210		1,210
Year 4	2,006	1,448		1,448
Year 5	2,007	1,161		1,161
2020 Compliance Year - Water into Distribution System				
2020		1,583		1,583

SB X7-4A | Volume Entering the Distribution System(s)

A purchased or imported source.			
Name of Source:		SBVMWD through Baseline Feeder	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,998	2,148	2,148
Year 2	1,999	2,574	2,574
Year 3	2,000	3,013	3,013
Year 4	2,001	3,146	3,146
Year 5	2,002	2,426	2,426
Year 6	2,003	2,537	2,537
Year 7	2,004	1,297	1,297
Year 8	2,005	1,932	1,932
Year 9	2,006	4,650	4,650
Year 10	2,007	2,861	2,861
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,003	2,537	2,537
Year 2	2,004	1,297	1,297
Year 3	2,005	1,932	1,932
Year 4	2,006	4,650	4,650
Year 5	2,007	2,861	2,861
2020 Compliance Year - Water into Distribution System			
2020		1,508	1,508

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source				
Name of Source:		No Man's Land		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,998	178		178
Year 2	1,999	158		158
Year 3	2,000	117		117
Year 4	2,001	92		92
Year 5	2,002	16		16
Year 6	2,003	0		0
Year 7	2,004	17		17
Year 8	2,005	967		967
Year 9	2,006	936		936
Year 10	2,007	1,070		1,070
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	0		0
Year 2	2,004	17		17
Year 3	2,005	967		967
Year 4	2,006	936		936
Year 5	2,007	1,070		1,070
2020 Compliance Year - Water into Distribution System				
2020		0		0

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3		Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1998	48,851	10,634	194.5
Year 2	1999	49,554	11,571	208.6
Year 3	2000	50,267	12,623	224.4
Year 4	2001	50,665	12,636	222.9
Year 5	2002	51,066	11,760	205.8
Year 6	2003	51,470	11,053	191.9
Year 7	2004	51,877	11,675	201.1
Year 8	2005	52,287	14,713	251.4
Year 9	2006	52,701	14,026	237.8
Year 10	2007	53,118	12,001	201.9
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:				214
5 Year Baseline GPCD				
Year 1	2003	51,470	11,053	192
Year 2	2004	51,877	11,675	201
Year 3	2005	52,287	14,713	251
Year 4	2006	52,701	14,026	238
Year 5	2007	53,118	12,001	202
5 Year Average Baseline GPCD:				217
2020 Compliance Year GPCD				
2020		55,860	8,929	143

SB X7-6 | Gallons per Capita per Day

STATUS: Published

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	214
5 Year Baseline GPCD	217
2020 Compliance Year GPCD	143

SB X7-7 | 2020 Target Method

STATUS:

NOTES: -

Select Only One	
Yes	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
No	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
214	171

SB X7-7E | 2020 Target Method 3

Select All that Apply	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets
		North Coast	137
		North Lahontan	173
		Sacramento River	176
		San Francisco Bay	131
		San Joaquin River	174
		Central Coast	123
		Tulare Lake	188
		South Lahontan	170
		South Coast	149
		Colorado River	211
Target (If more than one region is selected, this value is calculated.)			

SB X7-7F | Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD From SB X7-5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
217	206	171	171
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD. ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES: -

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
171	214	193

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
143	171				0	143	143	YES

E-8: AWWA Water Audits



AWWA Free Water Audit Software: Reporting Worksheet

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American Water Works Association

?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Rialto / Rialto Water Services (3610038)**
 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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

		----- Enter grading in column 'E' and 'J' -----			
Volume from own sources:	+ ?	8	5,796.780	acre-ft/yr	
Water imported:	+ ?	4	2,473.670	acre-ft/yr	
Water exported:	+ ?	8	69.760	acre-ft/yr	

Master Meter and Supply Error Adjustments

		Pcnt:	Value:	
+ ?	3	<input type="radio"/>	<input type="radio"/>	-44.036
+ ?	3	<input type="radio"/>	<input type="radio"/>	
+ ?	3	<input type="radio"/>	<input type="radio"/>	

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

WATER SUPPLIED: 8,244.726 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	7,629.824	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	10	3.464	acre-ft/yr
Unbilled unmetered:	+ ?	5	20.502	acre-ft/yr

AUTHORIZED CONSUMPTION: 7,653.790 acre-ft/yr

Click here: ?
 for help using option buttons below

Pcnt:	Value:
<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	20.502

Use buttons to select percentage of water supplied
 OR
 value

Pcnt:	Value:
0.25%	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>

2.00%	<input checked="" type="radio"/>	<input type="radio"/>
0.25%	<input checked="" type="radio"/>	<input type="radio"/>

WATER LOSSES (Water Supplied - Authorized Consumption)

590.936 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **20.612** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	3	155.781	acre-ft/yr
Systematic data handling errors:	+ ?		19.075	acre-ft/yr

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

Apparent Losses: 195.468 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **395.468** acre-ft/yr

WATER LOSSES: 590.936 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 614.902 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	9	186.5	miles
Number of active AND inactive service connections:	+ ?	8	11,740	
Service connection density:	?		63	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: + ? 4 75.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$9,875,543	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	8	\$1.92	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$124.07	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 68 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: Water imported

2: Customer metering inaccuracies

3: Volume from own sources



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

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+	Click to add a comment

Water Audit Report for: **Rialto / Rialto Water Services (3610038)**
 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

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

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

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->		Master Meter and Supply Error Adjustments	
Volume from own sources:	+ ? 7	5,708.210	acre-ft/yr
Water imported:	+ ? 6	2,865.560	acre-ft/yr
Water exported:	+ ? 8	0.000	acre-ft/yr
WATER SUPPLIED:		8,581.790	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	3	Value:	-8.020	acre-ft/yr
Pcnt:	n/a	Value:		acre-ft/yr
Pcnt:	?	Value:		acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	+ ? 7	8,126.781	acre-ft/yr
Billed unmetered:	+ ? n/a	0.000	acre-ft/yr
Unbilled metered:	+ ? n/a	0.000	acre-ft/yr
Unbilled unmetered:	+ ? 5	21.454	acre-ft/yr
AUTHORIZED CONSUMPTION:		8,148.235	acre-ft/yr

Click here: ? for help using option buttons below

Pcnt:	?	Value:	21.454	acre-ft/yr
-------	---	--------	--------	------------

Use buttons to select percentage of water supplied OR value

Pcnt:	0.25%	Value:		acre-ft/yr
Pcnt:	3.00%	Value:		acre-ft/yr
Pcnt:	0.25%	Value:		acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

433.555 acre-ft/yr

Apparent Losses

Unauthorized consumption:	+ ?	21.454	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed			
Customer metering inaccuracies:	+ ? 6	251.344	acre-ft/yr
Systematic data handling errors:	+ ?	20.317	acre-ft/yr
Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed			
Apparent Losses:	?	293.115	acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	?	140.440	acre-ft/yr
WATER LOSSES:		433.555	acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: ? **455.009** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ? 9	186.5	miles
Number of active AND inactive service connections:	+ ? 8	11,882	
Service connection density:	?	64	conn./mile main

Are customer meters typically located at the curbside or property line? Yes (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:	+ ? 4	75.0	psi
-----------------------------	-------	------	-----

COST DATA

Total annual cost of operating water system:	+ ? 10	\$6,011,278	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ? 8	\$2.23	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ? 3	\$124.07	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 66 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: Water imported



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: **Rialto / Rialto Water Services (3610038)**
 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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

----- Enter grading in column 'E' and 'J' ----->			
Volume from own sources:	+ ?	8	5,922.680 acre-ft/yr
Water imported:	+ ?	3	2,829.150 acre-ft/yr
Water exported:	+ ?	n/a	0.000 acre-ft/yr

Master Meter and Supply Error Adjustments

		Pcnt:	Value:	
+ ?	4	<input type="radio"/> <input checked="" type="radio"/>	-7.434	acre-ft/yr
+ ?	2	<input checked="" type="radio"/> <input type="radio"/>		acre-ft/yr
+ ?		<input checked="" type="radio"/> <input type="radio"/>		acre-ft/yr

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

WATER SUPPLIED: **8,759.264** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	8,052.560 acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000 acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000 acre-ft/yr
Unbilled unmetered:	+ ?		109.491 acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **8,162.051** acre-ft/yr

Click here: for help using option buttons below

Pcnt:	Value:
1.25%	<input type="radio"/> <input checked="" type="radio"/>

Use buttons to select percentage of water supplied OR value

Pcnt:	Value:
0.25%	<input type="radio"/> <input checked="" type="radio"/>

3.00%	<input checked="" type="radio"/> <input type="radio"/>
0.25%	<input checked="" type="radio"/> <input type="radio"/>

WATER LOSSES (Water Supplied - Authorized Consumption)

597.213 acre-ft/yr

Apparent Losses

Unauthorized consumption: **21.898** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	6	249.048 acre-ft/yr
Systematic data handling errors:	+ ?		20.131 acre-ft/yr

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

Apparent Losses: **291.078** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **306.135** acre-ft/yr

WATER LOSSES: **597.213** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **706.704** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	9	219.0 miles
Number of <u>active AND inactive</u> service connections:	+ ?	8	11,878
Service connection density:	?		54 conn./mile main

Are customer meters typically located at the curbside or property 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: **4** **65.0** psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$3,290,457	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	8	\$2.25	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	4	\$175.15	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 66 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: Water imported

2: Variable production cost (applied to Real Losses)

3: Volume from own sources



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: **Rialto / Rialto Water Services (3610038)**
 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: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

		----- Enter grading in column 'E' and 'J' -----			
Volume from own sources:	+ ?	7	4,817.050	acre-ft/yr	
Water imported:	+ ?	6	3,256.140	acre-ft/yr	
Water exported:	+ ?	8		acre-ft/yr	

Master Meter and Supply Error Adjustments

		Pcnt:	Value:	
+ ?	3			acre-ft/yr
+ ?	n/a			acre-ft/yr
+ ?				acre-ft/yr

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

WATER SUPPLIED: 8,073.190 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	7,710.590	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	8	31.190	acre-ft/yr
Unbilled unmetered:	+ ?	3	1.290	acre-ft/yr

AUTHORIZED CONSUMPTION: 7,743.070 acre-ft/yr

Click here: ?
 for help using option buttons below

Pcnt: Value: 1.290 acre-ft/yr

Use buttons to select percentage of water supplied
 OR
 value

Pcnt: Value: 0.25% acre-ft/yr

3.00% Value: 0.25% acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

330.120 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? 20.183 acre-ft/yr

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

Customer metering inaccuracies: + ? 6 239.436 acre-ft/yr

Systematic data handling errors: + ? 19.276 acre-ft/yr

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

Apparent Losses: 278.896 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **51.224** acre-ft/yr

WATER LOSSES: 330.120 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 362.600 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	9	219.0	miles
Number of <u>active AND inactive</u> service connections:	+ ?	9	11,965	
Service connection density:	?		55	conn./mile main

Are customer meters typically located at the curbside 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 65.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$2,599,483	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	9	\$2.25	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	3	\$189.76	\$/acre-ft <input type="checkbox"/> 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: Water imported

3: Variable production cost (applied to Real Losses)

E-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact The City of Rialto to obtain the most current version of the WSCP.

City of Rialto Water Shortage Contingency Plan

JUNE 2021

City of Rialto





CITY OF RIALTO

Water Shortage Contingency Plan

City of Rialto

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

City of Rialto

This Water Shortage Contingency Plan is a strategic plan that the City of Rialto (Rialto) uses to prepare for and respond to water shortages.

A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that Rialto will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help Rialto maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with Rialto's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes Rialto's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes water shortage stages to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant the City the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if additional shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, Rialto completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. Rialto is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, Rialto implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, Rialto's water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, Rialto will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, Rialto must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to Rialto at the time of analysis and can be update or revised at any time if circumstances change.

Rialto will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **Utilities Manager**
- **Conservation Coordinator**
- **Rialto Water Services/Veolia Operations Staff**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN- FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	Utilities Manager
JAN- FEB	Estimate available supplies for the year, considering the following year will be dry	The BTAC evaluates groundwater in storage each year. The Bunker Hill, Lytle Creek, Rialto-Colton, and Riverside North basins are sustainably managed to provide storage for use in dry years. In the unlikely event that local supplies are reduced, Rialto will coordinate with the BTAC to identify anticipated supplies.	Utilities Manager
JAN- FEB	Consider potential constraints that may impact supply delivery	<p>Identify any known regional or Rialto infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity.</p> <p>Identify any facilities out of service due to water quality problems, equipment failure, etc. that may impact normal water deliveries.</p> <p>Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs.</p>	RWS/Veolia
FEB	Convene WSCP Team to conduct Annual Assessment	<p>Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response level and actions are recommended to reduce/eliminate the shortage.</p> <p>Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response actions are needed to comply with the State mandate.</p>	WSCP Team

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JUNE	City Council	If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the Water Subcommittee of the City Council, Utility Commission, and the Rialto City Council, including the recommended shortage stage and response actions. The City Council may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.	City Manager, Water Subcommittee & City Council
ON-GOING	Implement WSCP actions, if needed	Relevant members of Rialto staff will implement shortage response actions associated with the declared water shortage stage	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

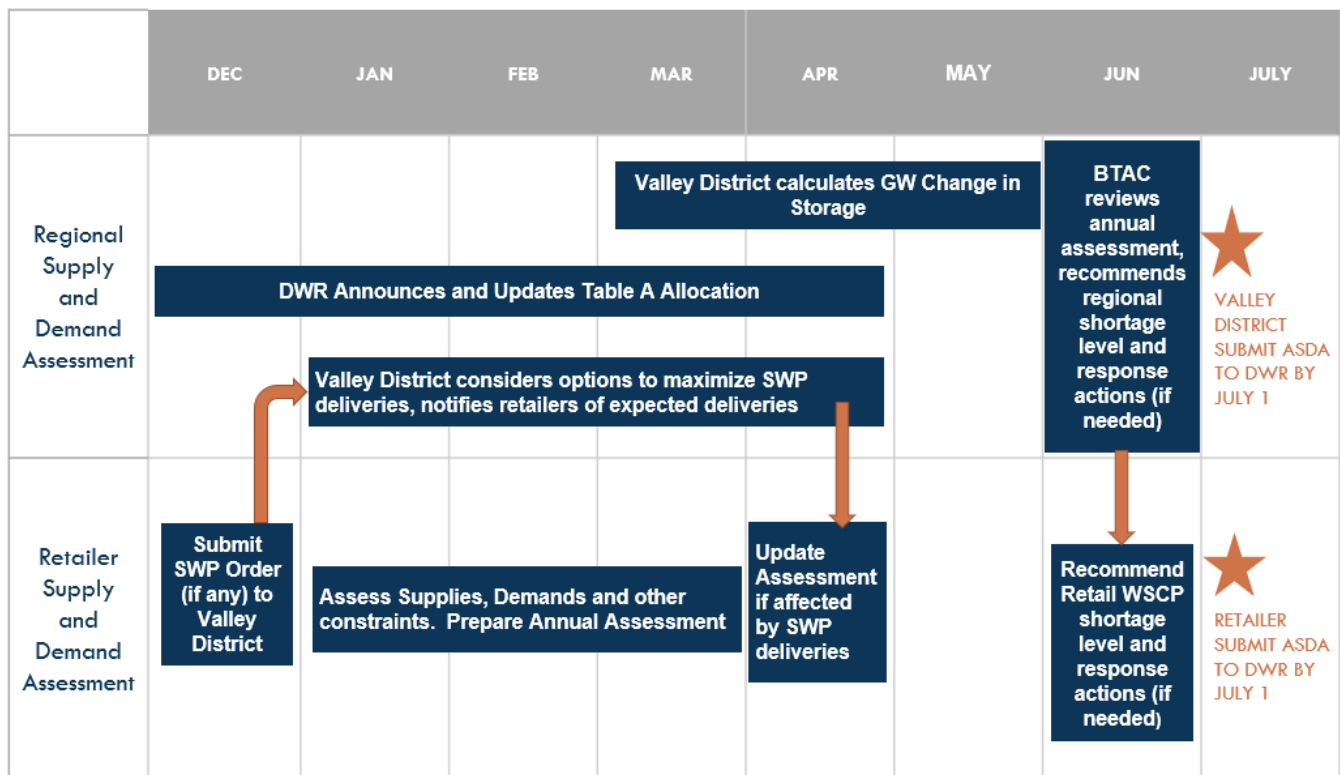


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

With the exception of a catastrophic failure of infrastructure, Rialto does not foresee imposing a water shortage stage except under the State's direction, as occurred in 2014. If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that Rialto may implement.

Rialto uses four (4) shortage stages to identify and respond to water shortage emergencies. At a minimum, Rialto encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I: Normal Conditions

Normal conditions mean normal supply and distribution capacity is available.

Stage II: Water Alert

Stage 2 means that the city may not be able to meet all water demands of all water customers, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 2 Water Alert as outlined in Section 12.20.022 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water consumption by a minimum twenty percent compared to their potable water consumption in the 2013 base year.

Stage III: Water Warning

Stage 3 means that the city is not able to meet all water demands of all water customers, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 3 water warning as outlined in Section 12.20.023 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water use consumption by a minimum twenty-five percent compared to their potable water consumption in the 2013 base year.

Stage IV: Water Emergency

Stage 4 means that the city is experiencing a major failure of water supply or distribution, or the state of California has adopted regulations requiring the city to implement requirements and actions of a Stage 4 water emergency as outline in Section 12.20.024 of Ordinance Number 1560, regardless of the city's local water supply. All customers are required to reduce potable water consumption by a minimum thirty percent compared to their potable water consumption in the 2013 base year. The use of water shall be limited to essential household, commercial, manufacturing or processing uses only, except where other uses may be allowed by permit.

The CWC outlines six standard water shortage stages that correspond to a gap in supply compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. Rialto is maintaining the current four shortage stages for this WSCP. A crosswalk defines how Rialto's current water shortage stages will align with the DWR's standardized 6 stages of shortage. A visual representation of this alignment is shown in [Figure 2](#).

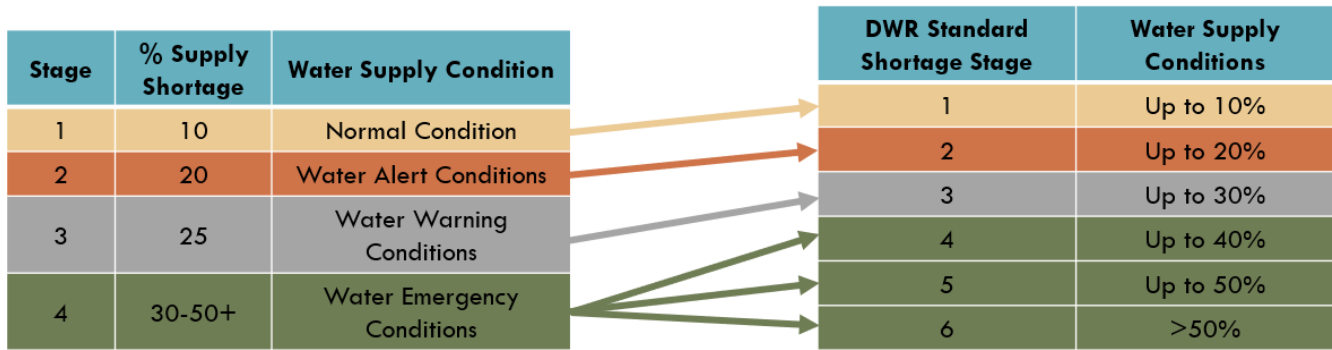


Figure 2. Crosswalk to DWR Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Conditions (Rialto Stage 1)
2	Up to 20%	Water Alert (Rialto Stage 2)
3	Up to 30%	Water Warning (Rialto Stage 3)
4	Up to 40%	Water Emergency (Rialto Stage 4)
5	Up to 50%	Water Emergency (Rialto Stage 4)
6	>50%	Water Emergency (Rialto Stage 4)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that must be implemented or considered for each stage to minimize social and economic impacts to the community.

In accordance with CWC 10632(b) Rialto analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions Rialto can take in the event of a water shortage condition. Rialto currently maintains mutual aid agreements with the City of San Bernardino, Fontana Water, RHWC, and WWWD. During water shortage emergencies, Rialto may be able to obtain supplemental water supply through these connections, if available. During water shortage emergencies, Rialto may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
4	Other purchases	0-100%	Mutual aid agreements with the City of San Bernardino, Fontana Water, RHWC, and WVWD.

4.2 Demand Reduction

In addition to prohibitions on end uses, Rialto participates in Statewide efforts to conserve water, and protect the ecological habitat of the region. The reduction goal is to balance supply and demand. [Table 4](#) summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
All	Expand Public Information Campaign	0-20%		No
1	CII - Restaurants may only serve water upon request	0-1%	All restaurants and food establishments are requested not to serve water to their customers unless specifically requested by the customer.	No
1	Landscape - Limit landscape irrigation to specific times	0-5%	Watering with automatic sprinklers should be done between 8 pm and 6 am and that hand watering and nonautomatic sprinklers should be done between 6 pm and 8 am. Drip irrigation is exempt from this recommendation. Water being used during repair or maintenance of watering systems is exempt from this section.	No
1	Landscape - Other landscape restriction or prohibition	0-5%	The use of sprinklers for any type of irrigation during high winds, which divert a significant amount of water away from the intended landscaping, is prohibited.	Yes
1	Landscape - Other landscape restriction or prohibition	0-5%	The irrigation with potable water of landscape outside of newly constructed homes and buildings must be consistent with regulations or other requirements established by the California Buildings Standards Commission, as those	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			regulations may be modified from time to time.	
1	Landscape - Prohibit certain types of landscape irrigation	0-5%	The irrigation of potable water of ornamental turf on public street medians is prohibited. The term "median" shall mean the strip of land between street lanes.	Yes
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Water used which results in flooding or run-off should be prevented and controlled. Use of water for any purpose which results in flooding or run-off in gutters, driveways or streets is prohibited.	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	No person shall knowingly permit water to leak from any facility, improvement or plumbing fixture on his/her/its premises; any such leak shall be repaired in a timely manner.	Yes
1	Other - Prohibit use of potable water for washing hard surfaces	0-1%	There shall be no application of water to sidewalks, walkways, driveways, parking areas, patios, porches, verandas, tennis courts or other paved, concrete or other hard surface areas, except that flammable or other similarly dangerous or unhealthy substances may be washed from said areas by direct hose flushing for the benefit of public health or safety.	Yes
1	Other - Require automatic shut of hoses	0-1%	Washing of automobiles, trucks, trailers, boats and other mobile equipment is prohibited unless done with a bucket or hand held device equipped with an automatic shut off trigger nozzle or device attached to it that causes it to cease dispensing water immediately when not in use. This section does not apply to the washing of the above-listed vehicles or mobile equipment when conducted at a commercial car or truck wash utilizing recirculating systems. Such washings are exempted from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning such as garbage trucks and vehicles used to transport food and perishables.	Yes
1	Water Features - Restrict water use for decorative	0-1%	No water to be used to clean, fill, operate or maintain decorative fountains unless the water is from a recycled source.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
	water features, such as fountains			
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless such water is part of a recirculating system.	Yes
2	CII - Lodging establishment must offer opt out of linen service	0-1%	Operators of hotels and motels must provide guests with the option of choosing not to have towels and linens laundered daily and prominently display notice of this option.	Yes
2	CII - Restaurants may only serve water upon request	0-1%	All restaurants are prohibited from serving water to their customers except when specifically requested by the customer.	Yes
2	Landscape - Limit landscape irrigation to specific days	0-5%	All landscape irrigation shall be limited to no more than four (4) days per week for no more than ten (10) minutes per station per day. This provision does not apply to any landscape that has water-efficient devices that are operated properly. Water-efficient devices are drip irrigation systems and operational weather-based irrigation controllers. The term "week" is defined as Sunday through Saturday.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	The city shall screen all new applications for water service installations and shall limit water use to that essential for construction and testing of landscape plumbing. Limited landscaping for new development shall be allowed as approved by the city.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Irrigating turf or ornamental landscapes during or within forty-eight (48) hours following measurable precipitation in excess of one-quarter inch is prohibited	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	All customers shall repair all leaks within seventy-two (72) hours of notification by the city, actual notice by the customer, or other notice of such leak, unless other arrangements are made with the city administrator or his/her designee.	Yes
3B	CII - Other CII restriction or prohibition	0-1%	Water used for compaction, dust control, and other types of construction shall be by permit only and will be limited to	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			conditions of the permit or may be prohibited as determined by the city administrator, or his/her designee.	
3A	Landscape - Limit landscape irrigation to specific days	0-5%	All landscape irrigation with potable water shall be limited to no more than three days per week for no more than ten minutes per station per day. This provision does not apply to any landscape that has water-efficient devices that are operated properly. Water-efficient devices are drip irrigation systems and operational weather-based irrigation controllers. Week is defined as Sunday through Saturday.	Yes
3A	Landscape - Other landscape restriction or prohibition	0-5%	New water service shall be installed but water shall be used before occupancy for essential construction only and for testing of landscape irrigation systems. The installation of new landscaping for all new development/projects must be approved by the city.	Yes
3C	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of automobiles, trucks, trailers, boats, airplanes and other types of mobile equipment is prohibited. Washing of the above-listed vehicles or mobile equipment shall be done only at a commercial car wash where recirculating or recycled water is being utilized. Such washings are exempt from these regulations when the health, safety, and welfare of the public is contingent upon frequent vehicle cleaning such as garbage trucks and vehicles used to transport food and perishables.	Yes
3A	Other water feature or swimming pool restriction	0-1%	Ornamental ponds, fountains, water displays, and artificial lakes shall not be filled or refilled.	Yes
3A	Other water feature or swimming pool restriction	0-1%	Swimming pools, hot tubs, and spas shall not be filled or refilled.	Yes
4	CII - Other CII restriction or prohibition	0-1%	No water shall be used for construction purposes unless they are using reclaimed water. All fire hydrant and construction meters shall be locked off or removed.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
4	Landscape - Limit landscape irrigation to specific days	0-5%	Commercial nurseries shall water only between the hours of 11 p.m. and 6 a.m. and only with hand-held devices or with drip irrigation.	Yes
4	Landscape - Prohibit all landscape irrigation	0-5%	There shall be no watering of any lawn or landscaped area, except by use of reclaimed water.	Yes
4	Other	0-1%	The use of water shall be limited to essential household, commercial, manufacturing or processing uses only, except where other uses may be allowed by permit.	Yes

4.3 Operational Changes and Additional Mandatory Restrictions

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. Rialto will consider their operational procedures when it completes its Annual Assessment. Any additional mandatory restrictions implemented in response to the declaration of a shortage response stage, beyond the actions listed in [Table 3](#) and [Table 4](#) are listed in Rialto’s Ordinance No. 1560 provided in [Attachment 1](#).

4.4 Emergency Response Plan

In 2021, Rialto completed a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America’s Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of Rialto’s infrastructure. The RRA is an assessment of Rialto’s water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of Rialto’s system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential and for use by Rialto’s staff only. However, Rialto can confirm that these plans meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to Rialto’s infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, Rialto is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. Rialto may also implement its four-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 4), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. As a part of the AWIA RRA and ERP, the City of Rialto has assessed the seismic risk and mitigation for water facilities.

The seismic hazards evaluated include fault rupture, liquefaction and seismic shaking and assessed the threat to critical facilities, including the water system. Rialto has identified a set of hazard mitigation actions that are intended to reduce the impact of hazard, including:

- Conduct a seismic analysis of all City- owned key facilities and retrofit vulnerable facilities.
- Consider locating wells outside of seismic hazard zones.

4.6 Shortage Response Action Effectiveness

Rialto has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#) when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

Rialto prioritizes effective communication, especially in times of a water shortage emergency. Rialto routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, and direct mail pieces to newspaper and bus shelter advertisements, news releases, social media outreach, and website content. Rialto continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

In the implementation of the water shortage contingency plan, the following penalties shall apply for any violation of the Rialto's Ordinance, Number 1560 Sections 12.20.022, 12.20.023, 12.20.024, and 12.20.040: Water Conservation Requirements.

First Violation: Notice of Non-Compliance

A written "warning shall be issued for the first offense.

Second Violation: Warning of Penalties

A written warning notice of the future imposition of penalties that could be placed on the customer's water bill shall be issued for the second offense.

Third Violation: Surcharge

A surcharge of one hundred dollars shall be added to that billing for the third offense occurring within a one-year period.

Fourth Violation: Surcharge

A surcharge of three hundred dollars, and installation of a flow restricting device in the meter for a minimum of ninety-six hours (at customer's expense) shall be imposed for the fourth offense occurring within a one-year period. Said restricted flow shall meet minimum county health department's standards, if any have been established. If said ninety-six-hour period ends on a weekend or holiday, full service will be restored during the next business day.

Fifth Violation: Surcharge

A surcharge of five hundred dollars, and termination of water service at customer's expense for a two-day period shall be imposed for the fifth offense occurring within a one-year period. Prior to the

termination of water service, the customer may request an administrative hearing pursuant to Section 1.10.050 of Ordinance No.1560.

7.0 Legal Authorities

To offset the prolonged effects of a drought period or other emergency, the City Council adopted Ordinance No. 1130 in December 1990. The ordinance provides water conservation measures in order to minimize the effect of a water shortage on the citizens of the community. The ordinance includes provisions that will significantly reduce the waste and inefficient use of water, thereby extending the available water resources required for the domestic and fire protection needs of the City and general public. Rialto adopted Ordinance No. 1560 in May, 2015, to update the sections regarding the four (4) stages that make up the water conservation requirements. Ordinance No. 1560 is included in [Attachment 1](#).

7.1 Water Shortage Emergency Declaration

In accordance with CWC Section Division 1, Section 350 – Rialto shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, Rialto shall coordinate with any the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

To ensure Rialto customers comply with Ordinance No. 1560 and CWC Chapter 3.3 (Excessive Residential Water Use During Drought), additional costs may be incurred to monitor and enforce response actions. The incurred cost may vary depending on the shortage stage and duration of the water shortage emergency. To mitigate the financial impacts of a water shortage Rialto has a tiered rate schedule for water customers to encourage water conservation and provide the economic incentives to customers to use water efficiently.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. Rialto will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to Rialto's Board for discretionary approval. Once discretionary approval has been granted, Rialto will hold a public hearing, obtain any comments and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

Rialto adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in May 2021 and a public hearing was held on **June 22, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The Rialto City Council adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 22, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on the City of Rialto web site.

If Rialto identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

The WSCP will be presented for adoption to Rialto's Board at a public City Council meeting. The Council may submit any comments prior to approval and adoption. The WSCP will be submitted to DWR at the same time as the 2020 Urban Water Management Plan. The WSCP will be made available to all staff, customers, and any affected cities, counties, or other members of the public at the Rialto office and online.

References

- California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.
- Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.
- United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: Rialto's Ordinance No. 1560

ORDINANCE NO. 1560

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF RIALTO, CALIFORNIA, AMENDING SECTIONS 12.20.020, 12.20.021, 12.20.022, 12.20.023, 12.20.024 AND 12.20.040 OF THE RIALTO MUNICIPAL CODE REGARDING WATER CONSERVATION REQUIREMENTS

WHEREAS, on January 17, 2014, the Governor issued a proclamation of a state of emergency under the California Emergency Services Act based on drought conditions; and

WHEREAS, on April 25, 2014, the Governor issued a proclamation of a continued state of emergency under the California Emergency Services Act based on continued drought conditions; and

WHEREAS, on July 14, 2014, the State Water Resources Control Board adopted emergency drought regulations for statewide urban water conservation; and

WHEREAS, on July 28, 2014, the emergency drought regulations were approved by the Office of Administrative Law and became effective; and

WHEREAS, on September 9, 2014, the City of Rialto adopted Ordinance No. 1550, amending Sections 12.20.010, 12.20.020, 12.20.021, 12.20.022, 12.20.023, 12.20.024, 12.20.030, 12.20.040, 12.20.050, 12.20.060, 12.20.080, and 12.20.090 of the Rialto Municipal Code regarding water conservation requirements in order to comply with the emergency drought regulations; and

WHEREAS, on March 17, 2015, the State Water Resources Control Board amended and re-adopted the emergency drought regulations for statewide urban water conservation; and

WHEREAS, on March 27, 2015, the amended emergency drought regulations were approved by the Office of Administrative Law and became effective; and

WHEREAS, on April 1, 2015, the Governor issued an Executive Order directing the State Water Resources Control Board to adopt emergency drought conservation regulations that result in a collective Statewide 25% reduction in potable urban water usage as compared to 2013; and

1 **WHEREAS**, on May 5, 2015, the State Water Resources Control Board amended and
2 re-adopted the emergency drought regulations for statewide urban water conservation; and

3 **WHEREAS**, on May 18, 2015, the amended emergency drought regulations were
4 approved by the Office of Administrative Law and became effective; and

5 **WHEREAS**, the amended emergency drought regulations adopted by the State Water
6 Resources Control Board require the City of Rialto to impose restrictions that result in a 28%
7 reduction in potable water usage as compared to 2013.

8 **NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF RIALTO FINDS AND**
9 **ORDAINS AS FOLLOWS:**

10 **Section 1.** The above recitals are all true and correct and are hereby adopted as
11 findings.

12 **Section 2.** Section 12.20.020 of the Rialto Municipal Code hereby is amended to
13 read in full as follows:

14 **"12.20.020 - Prohibited uses of water.**

15 The city council shall adopt the applicable conservation stage by resolution, which shall
16 apply to all persons and property affected by this chapter.

17 The term "base year" shall mean the following:

- 18 A. The year 2013, if the customer occupied the subject real property for the entire year.
- 19 B. If the customer did not occupy the subject real property for the entire year of 2013,
20 the base year for that customer would be the first twelve (12) months the customer
21 occupied the subject real property in or after 2013.
- 22 C. If the customer has not occupied the subject real property for a twelve (12) month
23 period on the adoption of this Ordinance, then the city will determine goals for that
24 customer, which goals shall be compared to the actual use of the customer on the
25 subject property. The customer shall have a ten (10) day period after the customer
26 receives the goals to appeal that determination to the City Administrator, in writing.
27 If the customer fails to appeal the determination within the ten (10) day period the
28 goals shall be final. Upon receipt of a timely appeal, the City Administrator shall
schedule a hearing at which the City Administrator or his/her designated
representative shall act as the hearing officer. The hearing shall be at least ten (10)
days following receipt of the appeal, and the city shall mail written notice of the
hearing to the customer at least ten (10) days before the date of said hearing. The
determination of the hearing officer with respect to the goals shall be final."

Section 3. Section 12.20.021 of the Rialto Municipal Code hereby is amended to

1 read in full as follows:

2 **"12.20.021 Stage 1 - Normal conditions.**

3 Stage 1, normal conditions means normal supply and distribution capacity is available
4 and the following water conservation measures shall apply:

5 A. Recommendations for Use of Water.

- 6 1. Watering with automatic sprinklers should be done between eight p.m. and six
7 a.m. Hand watering and non-automatic sprinklers should be done between six
8 p.m. and eight a.m. Drip irrigation is exempt from this recommendation. Water
9 being used during repair or maintenance of watering systems is exempt from
10 this section.
- 11 2. Water conservation should be practiced within the home or business.
- 12 3. All restaurants and food establishments are requested not to serve water to their
13 customers unless specifically requested by the customer.

14 B. The following uses of water are hereafter considered nonessential to the public
15 health, safety and welfare and, if practiced, would constitute wastage of water and
16 is hereby prohibited, pursuant to Water Code Section 350 et seq., Water Code
17 Section 71640 et seq., and the common law:

- 18 1. There shall be no application of water to sidewalks, walkways, driveways,
19 parking areas, patios, porches, verandas, tennis courts or other paved, concrete
20 or other hard surface areas, except that flammable or other similarly dangerous
21 or unhealthy substances may be washed from said areas by direct hose flushing
22 for the benefit of public health or safety.
- 23 2. No water shall be used to clean, fill, operate or maintain levels in decorative
24 fountains unless such water is part of a recirculating system.
- 25 3. No person shall knowingly permit water to leak from any facility, improvement
26 or plumbing fixture on his/her/its premises; any such leak shall be repaired in a
27 timely manner.
- 28 4. Washing of automobiles, trucks, trailers, boats, airplanes, and other types of
mobile equipment is prohibited unless done with a bucket or hand-held hose
equipped with a shut-off nozzle or device attached to it that causes it to cease
dispensing water immediately when not in use. This section does not apply to
the washing of the above-listed vehicles or mobile equipment when conducted
at a commercial car or truck wash utilizing recirculating systems. Such washings
are exempted from these regulations when the health, safety, and welfare of the

1 public is contingent upon frequent vehicle cleaning such as garbage trucks and
2 vehicles used to transport food and perishables.

- 3 5. Use of water for any purpose which results in flooding or run-off in gutters,
4 driveways or streets is prohibited.
- 5 6. The use of sprinklers for any type of irrigation during high winds, which divert a
6 significant amount of water away from the intended landscaping, is prohibited.
- 7 7. The irrigation of potable water of ornamental turf on public street medians is
8 prohibited. The term "median" shall mean the strip of land between street lanes.
- 9 8. The irrigation with potable water of landscape outside of newly constructed
10 homes and buildings must be consistent with regulations or other requirements
11 established by the California Buildings Standards Commission, as those
12 regulations may be modified from time to time."

13 **Section 4.** Section 12.20.022 of the Rialto Municipal Code hereby is amended to
14 read in full as follows:

15 **"12.20.022 Stage 2 - Water alert.**

16 Stage 2 means that the city may not be able to meet all water demands of all water
17 customers, or the state of California has adopted regulations requiring the city to
18 implement requirements and actions of a Stage 2 Water Alert as outlined herein this
19 Section 12.20.022, regardless of the city's local water supply, and the following water
20 conservation measures shall apply:

21 **A. Additional reductions.**

- 22 1. All policies and prohibitions listed in Sections 12.20.010 and 12.20.021.
- 23 2. All customers are required to reduce potable water consumption by a minimum
24 twenty percent compared to their potable water consumption in the base year.
- 25 3. The city shall screen all new applications for water service installations and shall
26 limit water use to that essential for construction and testing of landscape
27 plumbing. Limited landscaping for new development shall be allowed as
28 approved by the city.
4. All landscape irrigation shall be limited to no more than four days per week for
no more than ten minutes per station per day. This provision does not apply to
any landscape that has water-efficient devices that are operated properly.
Water-efficient devices are drip irrigation systems and operational weather-

1 based irrigation controllers. The term "week" is defined as Sunday through
2 Saturday.

- 3 5. Operators of hotels and motels must provide guests with the option of choosing
4 not to have towels and linens laundered daily and prominently display notice of
5 this option.
- 6 6. All restaurants are prohibited from serving water to their customers except when
7 specifically requested by the customer.
- 8 7. All customers shall repair all leaks within seventy-two (72) hours of notification
9 by the city, actual notice by the customer, or other notice of such leak, unless
10 other arrangements are made with the city administrator or his/her designee.
- 11 8. Irrigating turf or ornamental landscapes during or within forty-eight (48) hours
12 following measurable precipitation in excess of one-quarter ($\frac{1}{4}$) inch is
13 prohibited.

14 B. The following penalties shall apply:

- 15 1. First Violation: Notice of Non-Compliance—A written "warning" shall be issued
16 for the first offense.
- 17 2. Second Violation: Warning of Penalties—A written warning notice of the future
18 imposition of penalties that could be placed on the customer's water bill shall be
19 issued for the second offense.
- 20 3. Third Violation: A surcharge of one hundred dollars shall be added to that billing
21 for the third offense occurring within a one year period.
- 22 4. Fourth Violation: A surcharge of three hundred dollars, and installation of a flow
23 restricting device in the meter for a minimum of ninety-six hours (at customer's
24 expense) shall be imposed for the fourth offense occurring within a one-year
25 period. Said restricted flow shall meet minimum county health department's
26 standards, if any have been established. If said ninety-six hour period ends on
27 a weekend or holiday, full service will be restored during the next business day.
- 28 5. Fifth Violation: A surcharge of five hundred dollars, and termination of water
service at customer's expense for a two-day period shall be imposed for the fifth
offense occurring within a one year period. Prior to the termination of water
service, the customer may request an administrative hearing pursuant to
Section 1.10.050."

Section 5. Section 12.20.023 of the Rialto Municipal Code hereby is amended to

1 read in full as follows:

2 **"12.20.023 Stage 3 – Water warning.**

3 Stage 3 means that the city is not able to meet all water demands of all water
4 customers, or the state of California has adopted regulations requiring the city to
5 implement requirements and actions of a Stage 3 water warning as outlined herein this
6 Section 12.20.023, regardless of the city's local water supply, and the following water
conservation measures shall apply:

7 A. Sub-stage 3-A.

- 8 1. All policies and prohibitions listed in Sections 12.20.010, 12.20.021 and
9 12.20.022.
- 10 2. All customers are required to reduce potable water consumption by a minimum
11 twenty-five percent compared to their potable water consumption in the base
12 year.
- 13 3. New water service shall be installed but water shall be used before occupancy
14 for essential construction only and for testing of landscape irrigation systems.
15 The installation of new landscaping for all new development/projects must be
approved by the city.
- 16 4. Swimming pools, ornamental ponds, fountains, water displays, hot tubs, spas
17 and artificial lakes shall not be filled or refilled after being drained.
- 18 5. All landscape irrigation with potable water shall be limited to no more than three
19 days per week for no more than ten minutes per station per day. This provision
20 does not apply to any landscape that has water-efficient devices that are
operated properly. Water-efficient devices are drip irrigation systems and
21 operational weather-based irrigation controllers. Week is defined as Sunday
through Saturday.

22 B. Sub-stage 3-B.

- 23 1. All policies and prohibitions listed in Sections 12.20.010, 12.20.021, 12.20.022,
24 and sub-section A of this Section, except that all landscape irrigation with
25 potable water shall be limited to no more than two days per week for no more
26 than ten minutes per station per day.
- 27 2. Water used for compaction, dust control, and other types of construction shall
28 be by permit only and will be limited to conditions of the permit or may be
prohibited as determined by the city administrator, or his/her designee.

1 C. Sub-stage 3-C.

- 2 1. All policies and prohibitions listed in Sections 12.20.010, 12.20.021, 12.20.022,
3 and sub-sections A and B of this Section, except that all landscape irrigation
4 with potable water shall be limited to no more than one day per week for no
5 more than ten minutes per station per day.
- 6 2. Washing of automobiles, trucks, trailers, boats, airplanes and other types of
7 mobile equipment is prohibited. Washing of the above-listed vehicles or mobile
8 equipment shall be done only at a commercial car wash where recirculating or
9 recycled water is being utilized. Such washings are exempt from these
regulations when the health, safety, and welfare of the public is contingent upon
frequent vehicle cleaning such as garbage trucks and vehicles used to transport
food and perishables.

10 D. The following penalties shall apply:

- 11 1. First Violation: Notice of Non-Compliance—A written "warning" shall be issued
12 for the first offense.
- 13 2. Second Violation: Warning of Penalties—A written warning notice of the future
14 imposition of penalties that could be placed on the customer's water bill shall be
15 issued for the second offense.
- 16 3. Third Violation: A surcharge of one hundred dollars shall be added to that billing
17 for the third offense occurring within a one year period.
- 18 4. Fourth Violation: A surcharge of three hundred dollars, and installation of a flow
19 restricting device in the meter for a minimum of ninety-six hours (at customer's
20 expense) shall be imposed for the fourth offense occurring within a one-year
21 period. Said restricted flow shall meet minimum county health department's
standards, if any have been established. If said ninety-six hour period ends on
a weekend or holiday, full service will be restored during the next business day.
- 22 5. Fifth Violation: A surcharge of five hundred dollars, and termination of water
23 service at customer's expense for a two-day period shall be imposed for the fifth
24 offense occurring within a one year period. Prior to the termination of water
25 service, the customer may request an administrative hearing pursuant to
26 Section 1.10.050."

27 **Section 6.** Section 12.20.024 of the Rialto Municipal Code hereby is amended to
28 read in full as follows:

"12.20.024 Stage 4 – Water emergency.

(Original printed on acid-free paper)

1 Stage 4 means that the city is experiencing a major failure of water supply or
2 distribution, or the state of California has adopted regulations requiring the city to
3 implement requirements and actions of a Stage 4 water emergency as outlined herein
4 this Section 12.20.024, regardless of the city's local water supply, and the following
5 water conservation measures shall apply:

6 A. Additional reductions.

- 7 1. All policies and prohibitions shown in Sections 12.20.010, 12.20.021, 12.20.022
8 and 12.20.023.
- 9 2. All customers are required to reduce potable water consumption by a minimum
10 thirty percent compared to their potable water consumption in the base year.
- 11 3. No water shall be used for construction purposes unless they are using
12 reclaimed water. All fire hydrant and construction meters shall be locked off or
13 removed.
- 14 4. Commercial nurseries shall water only between the hours of eleven p.m. and
15 six a.m. and only with hand-held devices or with drip irrigation.
- 16 5. There shall be no watering of any lawn or landscaped area, except by use of
17 reclaimed water.
- 18 6. The use of water shall be limited to essential household, commercial,
19 manufacturing or processing uses only, except where other uses may be
20 allowed by permit.

21 B. The following penalties shall apply:

- 22 1. First Violation: Notice of Non-Compliance—A written "warning" shall be issued
23 for the first offense.
- 24 2. Second Violation: Warning of Penalties—A written warning notice of the future
25 imposition of penalties that could be placed on the customer's water bill shall be
26 issued for the second offense.
- 27 3. Third Violation: A surcharge of one hundred dollars shall be added to that billing
28 for the third offense occurring within a one year period.
4. Fourth Violation: A surcharge of three hundred dollars, and installation of a flow
restricting device in the meter for a minimum of ninety-six hours (at customer's
expense) shall be imposed for the fourth offense occurring within a one-year
period. Said restricted flow shall meet minimum county health department's

standards, if any have been established. If said ninety-six hour period ends on a weekend or holiday, full service will be restored during the next business day.

5. Fifth Violation: A surcharge of five hundred dollars, and termination of water service at customer's expense for a two-day period shall be imposed for the fifth offense occurring within a one year period. Prior to the termination of water service, the customer may request an administrative hearing pursuant to Section 1.10.050."

Section 7. Section 12.20.040 of the Rialto Municipal Code hereby is amended to read in full as follows:

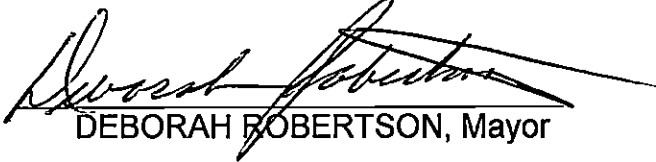
"12.20.040 - Duration of declaration.

The declaration of any stage of water supply conditions shall remain in effect until such time as another stage is declared."


Section 8. Except as specifically amended by this Ordinance, all remaining provisions of Chapter 12.20 of the Rialto Municipal Code shall remain unmodified and in full force and effect.

Section 9. The City Clerk shall certify to the adoption of this Ordinance, and cause the same to be published in the local newspaper, and the same shall take effect thirty (30) days after its date of adoption:

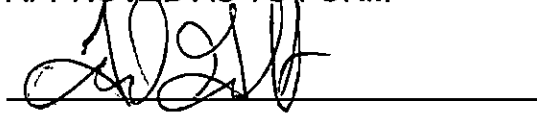
PASSED, APPROVED AND ADOPTED this 14th day of July, 2015.


DEBORAH ROBERTSON, Mayor

ATTEST:


BARBARA MCGEE, City Clerk

APPROVED AS TO FORM


FRED GALANTE, City Attorney

1 STATE OF CALIFORNIA)
2 COUNTY OF SAN BERNARDINO) ss
3 CITY OF RIALTO)

4 I, Barbara McGee, City Clerk of the City of Rialto, do hereby certify that the foregoing
5 Ordinance No. 1560 was duly passed and adopted at a regular meeting of the City Council
6 of the City of Rialto held on the 14th day of July, 2015.

7 Upon motion of Councilmember Baca Jr., seconded by Councilmember O'Connell, the
8 foregoing Ordinance No. 1560 was duly passed and adopted.

9 Vote on the Motion:

10 AYES: Mayor Robertson, Councilmembers: Baca Jr., Palmer, O'Connell, Scott

11 NOES: None

12 ABSENT: None

13 IN WITNESS WHEREOF, I have hereunto set my hand and the Official Seal of the
14 City of Rialto, this 28th day of July, 2015.

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17 Barbara A. McGee, City Clerk

Attachment 2: Adoption Resolution

1 **RUA RESOLUTION NO. 04-21**

2
3 **A RESOLUTION OF THE UTILITY AUTHORITY OF THE CITY**
4 **OF RIALTO, CALIFORNIA, ADOPTING THE WATER**
5 **SHORTAGE CONTINGENCY PLAN**

6 **WHEREAS**, the California Urban Water Management Planning Act, Water Code Section 10610
7 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal
8 purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually,
9 prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan
10 (WSCP); and

11 **WHEREAS**, the Rialto Utility Authority meets the definition of an urban water supplier for
12 purposes of the UWMP Act; and

13 **WHEREAS**, the UWMP Act specifies the requirements and procedures for adopting such
14 WSCP; and

15 **WHEREAS**, pursuant to recent amendments to the UWMP Act, urban water suppliers are
16 required to adopt and electronically submit their WSCPs to the California Department of Water
17 Resources by July 1, 2021; and

18 **WHEREAS**, the Rialto Utility Authority has prepared a WSCP in accordance with the UWMP
19 Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain
20 coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP;
21 and

22 **WHEREAS**, the WSCP references and incorporates the provisions of the City of Rialto and
23 Rialto Utility Authority's Water Conservation Ordinance No. 1560 adopted on July 14, 2015; and

24 **WHEREAS**, in accordance with the UWMP Act, the Rialto Utility Authority has prepared its
25 WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other
26 governmental agencies, and has utilized and relied upon industry standards and the expertise of industry
27 professionals in preparing its WSCP, and has also utilized the California Department of Water
28

1 Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in
2 preparing its WSCP; and

3 **WHEREAS**, in accordance with applicable law, including Water Code sections 10608.26 and
4 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the Rialto Utility
5 Authority’s WSCP was published within the jurisdiction of the Rialto Utility Authority on June 7, 2021,
6 and June 14, 2021; and

7 **WHEREAS**, in accordance with applicable law, including but not limited to Water Code
8 sections 10608.26 and 10642, a public hearing was held on June 22, 2021 at 6:30 PM, or soon thereafter,
9 in the Council Chambers of the City of Rialto at 150 South Palm Avenue in Rialto, California in order to
10 provide members of the public and other interested entities with the opportunity to be heard in
11 connection with proposed adoption of the WSCP and issues related thereto; and

12 **WHEREAS**, pursuant to said public hearing on the WSCP, the Rialto Utility Authority, among
13 other things, encouraged the active involvement of diverse social, cultural, and economic members of
14 the community within Rialto Utility Authority’s service area with regard to the preparation of the
15 WSCP, encouraged community input regarding Rialto Utility Authority’s WSCP; and

16 **WHEREAS**, the Rialto Utility Authority Board of Directors has reviewed and considered the
17 purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation
18 contained in the administrative record in support of the WSCP, and has determined that the factual
19 analyses and conclusions set forth in the WSCP are legally sufficient; and

20 **WHEREAS**, the Rialto Utility Authority Board of Directors desires to adopt the WSCP in order
21 to comply with the UWMP Act.

22 **NOW, THEREFORE, THE RIALTO UTILITY AUTHORITY OF THE CITY OF**
23 **RIALTO DOES HEREBY FIND, DETERMINE, AND RESOLVE AS FOLLOWS:**

24 **Section 1:** The WSCP is hereby adopted as amended by changes incorporated by the Rialto
25 Utility Authority Board of Directors as a result of input received (if any) at the public hearing and
26 ordered filed with the Secretary of the Rialto Utility Authority;

27 **Section 2:** The Utilities Manager is hereby authorized and directed to include a copy of this
28 Resolution in Rialto Utility Authority’s WSCP;

1 **Section 3:** The Utilities Manager is hereby authorized and directed, in accordance with Water
2 Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the
3 California Department of Water Resources no later than July 1, 2021;

4 **Section 4:** The Utilities Manager is hereby authorized and directed, in accordance with Water
5 Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or
6 county within which the Rialto Utility Authority provides water supplies no later than thirty (30) days
7 after this adoption date;

8 **Section 5:** The Utilities Manager is hereby authorized and directed, in accordance with Water
9 Code section 10645, to make the WSCP available for public review at the Rialto Utility Authority’s
10 offices during normal business hours and on the Rialto Utility Authority’s website no later than thirty
11 (30) days after filing a copy of the WSCP with the California Department of Water Resources;

12 **Section 6:** The Utilities Manager is hereby authorized and directed, in accordance with Water
13 Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section
14 10635(a) to any city or county within which the Rialto Utility Authority provides water supplies no later
15 than sixty (60) days after submitting a copy of the WSCP with the California Department of Water
16 Resources;

17 **Section 7:** The Utilities Manager is hereby authorized and directed to implement the WSCP in
18 accordance with the UWMP Act and to provide recommendations to the Board of Directors regarding
19 the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and
20 equitable implementation of the WSCP.

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PASSED APPROVED AND ADOPTED this 22nd day of June, 2021.



DEBORAH ROBERTSON, President

ATTEST:



BARBARA A. McGEE, Board Secretary

APPROVED AS TO FORM:



ERIC S. VAIL, Board Counsel

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STATE OF CALIFORNIA)
COUNTY OF SAN BERNARDINO) ss
CITY OF RIALTO)

I, Barbara A. McGee, Board Secretary of the Rialto Utility Authority, do hereby certify that the foregoing Resolution No. 04-21 was duly passed and adopted at a regular meeting of the Rialto Utility Authority of the City of Rialto held on the 22nd day of June, 2021.

Upon motion of Board Member Trujillo, seconded by Board Member Carrizales, the foregoing Resolution No. 04-21 was duly passed and adopted.

Vote on the motion:

AYES: Mayor Robertson, Mayor Pro Tem Scott, Council Member Trujillo, Carrizales and Perez

NOES: None

ABSENT: None

IN WITNESS WHEREOF, I have hereunto set my hand and the Official Seal of the City of Rialto this 23 day of June, 2021.

Barbara A. McGee
BARBARA _____, _____ SECRETARY

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RESOLUTION NO. 7736

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF RIALTO, CALIFORNIA, ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan (WSCP); and

WHEREAS, the City of Rialto meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such WSCP; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, the City of Rialto has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the City of Rialto’s Water Conservation Ordinance No. 1560 adopted on July 14, 2015; and

WHEREAS, in accordance with the UWMP Act, the City of Rialto has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook

1 for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP;
2 and

3 **WHEREAS**, in accordance with applicable law, including Water Code sections 10608.26 and
4 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the City of Rialto’s
5 WSCP was published within the jurisdiction of the City of Rialto on June 7, 2021, and June 14, 2021;
6 and

7 **WHEREAS**, in accordance with applicable law, including but not limited to Water Code
8 sections 10608.26 and 10642, a public hearing was held on June 22, 2021 at 6:30 PM, or soon thereafter,
9 in the Council Chambers of the City of Rialto at 150 South Palm Avenue in Rialto, California in order to
10 provide members of the public and other interested entities with the opportunity to be heard in
11 connection with proposed adoption of the WSCP and issues related thereto; and

12 **WHEREAS**, pursuant to said public hearing on the WSCP, the City of Rialto, among other
13 things, encouraged the active involvement of diverse social, cultural, and economic members of the
14 community within City of Rialto’s service area with regard to the preparation of the WSCP, encouraged
15 community input regarding City of Rialto’s WSCP; and

16 **WHEREAS**, the City Council for the City of Rialto has reviewed and considered the purposes
17 and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the
18 administrative record in support of the WSCP, and has determined that the factual analyses and
19 conclusions set forth in the WSCP are legally sufficient; and

20 **WHEREAS**, the City Council for the City of Rialto desires to adopt the WSCP in order to
21 comply with the UWMP Act.

22 **NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF RIALTO DOES**
23 **HEREBY FIND, DETERMINE, AND RESOLVE AS FOLLOWS:**

24 **Section 1:** The WSCP is hereby adopted as amended by changes incorporated by the City
25 Council for the City of Rialto as a result of input received (if any) at the public hearing and ordered filed
26 with the City Clerk for the City of Rialto;

27 **Section 2:** The Utilities Manager is hereby authorized and directed to include a copy of this
28 Resolution in City of Rialto’s WSCP;

1 **Section 3:** The Utilities Manager is hereby authorized and directed, in accordance with Water
2 Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the
3 California Department of Water Resources no later than July 1, 2021;

4 **Section 4:** The Utilities Manager is hereby authorized and directed, in accordance with Water
5 Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or
6 county within which the City of Rialto provides water supplies no later than thirty (30) days after this
7 adoption date;

8 **Section 5:** The Utilities Manager is hereby authorized and directed, in accordance with Water
9 Code section 10645, to make the WSCP available for public review at the City of Rialto’s offices during
10 normal business hours and on the City of Rialto’s website no later than thirty (30) days after filing a
11 copy of the WSCP with the California Department of Water Resources;

12 **Section 6:** The Utilities Manager is hereby authorized and directed, in accordance with Water
13 Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section
14 10635(a) to any city or county within which the City of Rialto provides water supplies no later than sixty
15 (60) days after submitting a copy of the WSCP with the California Department of Water Resources;

16 **Section 7:** The Utilities Manager is hereby authorized and directed to implement the WSCP in
17 accordance with the UWMP Act and to provide recommendations to the City Council regarding the
18 necessary budgets, procedures, rules, regulations or further actions to carry out the effective and
19 equitable implementation of the WSCP.

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WHEREFORE, this Resolution is passed, approved and adopted this 22nd day of June, 2021.



DEBORAH ROBERTS, Mayor

ATTEST:



BARBARA H. MCGEE, City Clerk

APPROVED AS TO FORM:



ERIC VAIL, City Clerk

1 **STATE OF CALIFORNIA**)
2 **COUNTY OF SAN BERNARDINO**) ss
3 **CITY OF RIALTO**)

4 I, Barbara A. McGee, City Clerk of the City of Rialto, do hereby certify that the foregoing
5 Resolution No. 7736 was duly passed and adopted at a regular meeting of the City Council of the City
6 of Rialto held on the 22nd day of June, 2021.

7 Upon motion of Councilmember Trujillo, seconded by Councilmember Carrizales, the foregoing
8 Resolution No. 7736 was duly passed and adopted.

9 Vote on the motion:

10 AYES: Mayor Robertson, Mayor Pro Tem Scott, Council Member Trujillo, Carrizales and Perez

11 NOES: None

12 ABSENT: None

13 IN WITNESS WHEREOF, I have hereunto set my hand and the Official Seal of the City of
14 Rialto this 23rd day of June, 2021.

15
16
17 Barbara A. McGee
18 BARBARA A. MCGEE, CITY CLERK

F

2020 IRUWMP Part 4 East Valley Water District Appendix F



F-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 6 Part 1 Chapter 3
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	Part 2 Chapter 6 Executive Summary
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	Part 2 Chapter 6
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	Part 1 Chapter 1
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	Part 4 Appendix F-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 6 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 6 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 6 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 2 Chapter 6 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 6 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 6 Section 2.1.2
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	Part 2 Chapter 6 Section 2.2.1
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	Part 2 Chapter 6 Section 2.2
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	Part 2 Chapter 6 Section 2.1.2
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	Part 2 Chapter 6 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 6 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 6 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 6 Section 3.2
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
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	N/A
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	Part 4 Appendix F-7
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	Part 4 Appendix F-7
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	Part 2 Chapter 6 Section 4 Part 2 Chapter 6 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 6 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 6 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 6 Section 4.6.2 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 6 Section 4.7 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 6 Section 4.2
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	Part 2 Chapter 6 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 6 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 6 Section 4.2
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	Part 2 Chapter 6 Section 4.7
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	Part 2 Chapter 6 Section 4.6
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)	Part 2 Chapter 6 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 6 Section 4.5.1
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)	Part 2 Chapter 6 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 6 Section 4.5 Part 1 Chapter 3 Part 4 Appendix F-6
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 6 Section 4.5
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	Part 2 Chapter 6 Section 4.6.2 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 6 Section 4.8 Part 4 Appendix F-6
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	Water Supply Reliability Assessment	Part 2 Chapter 6 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 6 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 6 Section 6
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	Part 2 Chapter 6 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 6 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 6 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 6 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix F-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix F-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix F-9 Section 10.0
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	Part 4 Appendix F-9 Section 2.0
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	Part 4 Appendix F-9 Section 2.0
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	Part 4 Appendix F-9 Section 3.0
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	Part 4 Appendix F-9 Section 3.0
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	Part 4 Appendix F-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix F-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix F-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix F-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix F-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix F-9 Section 4.4&4.5
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	Part 4 Appendix F-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix F-9 Section 5.0
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	Part 4 Appendix F-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix F-9 Section 7.0
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	Part 4 Appendix F-9 Section 7.1
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	Part 4 Appendix F-9 Section 7.2
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	Part 4 Appendix F-9 Section 8.0
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	Part 4 Appendix F-9 Section 8.0
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	Part 4 Appendix F-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix F-9 Section 9.0
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	Part 4 Appendix F-9 Section 4.0
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	Part 4 Appendix F-9 Section 11.0
Section 8.14	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	Part 4 Appendix F-9 Section 11.0
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
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	Part 2 Chapter 6 Section 8
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	Part 2 Chapter 6 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 6 Section 9 Part 4 Appendix F-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9 Part 4 Appendix F-2 Public Outreach
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 6 Section 9
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	Part 2 Chapter 6 Section 9

F-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

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Telephone (909) 889-9666 / Fax (909) 884-2536

Nathan Carlson
EAST VALLEY WATER DISTRICT
31111 GREENSPOT ROAD
HIGHLAND, CA - 92346

SB #: 3479088

PROOF OF PUBLICATION

(2015.5 C.C.P.)

State of California)
County of SAN BERNARDINO) ss

Notice Type: HRGSB - NOTICE OF HEARING-SB

Ad Description:

UWMP and WSCP June 23rd Public Hearing

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of the printer and publisher of the SAN BERNARDINO COUNTY SUN, a newspaper published in the English language in the city of SAN BERNARDINO, county of SAN BERNARDINO, and adjudged a newspaper of general circulation as defined by the laws of the State of California by the Superior Court of the County of SAN BERNARDINO, State of California, under date 06/27/1952, Case No. 73081. That the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

06/09/2021, 06/16/2021

Executed on: 06/16/2021
At Riverside, California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.



Signature

EAST VALLEY WATER DISTRICT NOTICE OF PUBLIC HEARING 2020 Integrated Regional Urban Water Management Plan and Water Shortage Contingency Plan NOTICE IS HEREBY GIVEN that the East Valley Water District (EVWD) will hold a Public Hearing in conjunction with the regularly scheduled board meeting on Wednesday, JUNE 23, 2021 at 5:30 PM, at the East Valley Water District headquarters located at 31111 Greenspot Road, Highland, California. In an effort to prevent the spread of COVID-19 and in accordance with Governor Newsom's Executive Order N-25-20 and N-29-20, this meeting is being conducted via teleconference. There will be no public location for attending this meeting in person. The purpose of this hearing will be to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Draft Water Shortage Contingency Plan (WSCP). Following the public hearing, the EVWD's Board of Directors may adopt the Draft 2020 IRUWMP and Draft WSCP with recommended modifications, if any, as a result of public input. The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents EVWD's plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The Draft WSCP documents EVWD's plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies. All interested persons are invited to review the Draft 2020 IRUWMP and Draft WSCP therefore, copies of which will be available for download at eastvalley.org or available for public inspection during regular business hours at the headquarters of the East Valley Water District located at 31111 Greenspot Road, Highland California, ten (10) days prior to the above meeting. Please provide written comments on the Draft 2020 IRUWMP documents to Nathan Carlson, Senior Engineer at ncarlson@eastvalley.org prior to June 23, 2021. If you have any questions regarding EVWD's 2020 IRUWMP or WSCP or the public hearing, please contact Nathan Carlson at (909) 888-8986 or

! A000005750814!

Email

ncarlson@eastvalley.org. Attest:
Justine Hendricksen District Clerk
6/9, 6/16/21

SBS-3479088#

F-3: Resolutions

RESOLUTION NO. 2021.11

**RESOLUTION OF THE BOARD OF DIRECTORS
OF EAST VALLEY WATER DISTRICT
ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED
INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN**

WHEREAS, the East Valley Water District and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the East Valley Water District participated in the development of the 2007 and 2015 IRWMPs and adopted the 2007 and 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and

WHEREAS, the East Valley Water District meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP (RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the UWMP Act; and

WHEREAS, the East Valley Water District participated in the 2010 and 2015 RUWMP; and

WHEREAS, both the IRWMP and RUWMP are both due to be updated; and

WHEREAS, the East Valley Water District and nineteen other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 – Individual Agency Supporting Information; and

WHEREAS, as a participant in the 2020 IRUWMP, the East Valley Water District has prepared those portions of the IRUWMP applicable to the East Valley Water District

to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include Part 1, Part 2 Chapter 6: East Valley Water District UWMP, Part 3, and Part 4 Appendix F: East Valley Water District Supporting Information; and

WHEREAS, in accordance with applicable legal requirements, the East Valley Water District has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and

WHEREAS, in accordance with the UWMP Act, The East Valley Water District has prepared the 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding the East Valley Water District's adoption of Part 1, Part 2 Chapter 6, Part 3 and Part 4 Appendix F of the 2020 IRUWMP was published within the jurisdiction of the East Valley Water District on June 9, 2021 and June 16, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 23, 2021 at 5:30 pm, or soon thereafter, virtually via Microsoft Teams, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, The East Valley Water District, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the East Valley Water District's service area with regard to the preparation of the Plan, encouraged community input regarding the 2020 IRUWMP; and

WHEREAS, the Board of Directors has reviewed and considered the purposes and requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and

the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and

WHEREAS, the Board of Directors desires to adopt Part 1, Part 2 Chapter 6, Part 3 and Part 4, Appendix F of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of East Valley Water District hereby resolve as follows:

1. Part 1, Part 2 Chapter 6, Part 3 and Part 4 Appendix F of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Board of Directors;

2. The General Manager/CEO is hereby authorized and directed to include a copy of this Resolution in the East Valley Water District's 2020 IRUWMP;

3. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the East Valley Water District portions of the 2020 IRUWMP to DWR no later than July 1, 2021;

4. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which the East Valley Water District provides water supplies no later than thirty (30) days after this adoption date;

5. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at The East Valley Water District offices during normal business hours and on East Valley Water District website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;

6. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which the East Valley

Water District provides water supplies no later than sixty (60) days after submitting a copy to DWR;

7. The General Manager/CEO is hereby authorized and directed to implement the 2020 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the Board of Directors regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

ADOPTED, this 23rd day of June 2021.

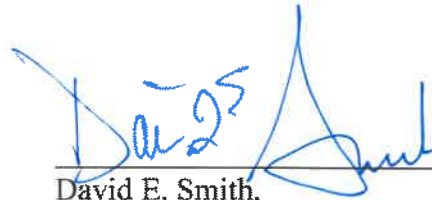
ROLL CALL:

Ayes: Directors: Carrillo, Coats, Goodrich, Morales, Smith

Noes: None

Absent: None

Abstain: None



David E. Smith,
Board President

ATTEST:


John Mura,
Board Secretary

June 23, 2021

I HEREBY CERTIFY that the foregoing is a full, true and correct copy of Resolution 2021.11 adopted by the Board of Directors of East Valley Water District at its Regular Meeting held June 23, 2021.



John Mura,
Secretary, Board of Directors

F-4: Agreements

Not used. East Valley Water District does not have any relevant agreements referenced in their UWMP.

F-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information

Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	East Valley Water District	8906827628	3/19/2021 3:04:21 PM

Boundary Information

Census Year	Boundary Filename	Internal Boundary ID
1990	Service Area Pre 2010.kml	523
2000	Service Area Pre 2010.kml	523
2010	EVWD04112016.kml	1002
1990	Service Area Pre 2010.kml	523
2000	Service Area Pre 2010.kml	523
2010	EVWD04112016.kml	1002
1990	Service Area Pre 2010.kml	523
2000	Service Area Pre 2010.kml	523
2010	EVWD04112016.kml	1002
1990	Service Area Pre 2010.kml	523
2000	Service Area Pre 2010.kml	523
2010	EVWD04112016.kml	1002

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period: ▼
 Year beginning baseline period range: ▼
 Year ending baseline period range¹: 2008

5-year baseline period

Year beginning baseline period range: ▼
 Year ending baseline period range²: 2008

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons per Connection

Year	Census Block Level	Number of Connections *	Persons per Connection
	Total Population		
1990	74,528	<input type="text"/>	5.08
1991	-	-	5.08
1992	-	-	5.07
1993	-	-	5.06
1994	-	-	5.06
1995	-	-	5.05
1996	-	-	5.04
1997	-	-	5.04
1998	-	-	5.03
1999	-	-	5.02
2000	84,764	<input type="text" value="16899"/>	5.02
2001	-	-	5.01
2002	-	-	5.01
2003	-	-	5.00
2004	-	-	4.99
2005	-	-	4.98
2006	-	-	4.98
2007	-	-	4.97
2008	-	-	4.96
2009	-	-	4.96
2010	99,654	<input type="text" value="20137"/>	4.95
2011	-	-	5.02
2012	-	-	5.02
2013	-	-	5.02
2014	-	-	5.02
2015	-	-	5.02
2020	-	-	4.88 **

Population Using Persons-Per-Connection				
Year		Number of Connections *	Persons per Connection	Total Population
10 to 15 Year Baseline Population Calculations				
Year 1	1999	17203	5.02	86,404
Year 2	2000	16899	5.02	84,764
Year 3	2001	16899	5.01	84,715
Year 4	2002	17636	5.01	88,286
Year 5	2003	18946	5.00	94,711
Year 6	2004	19615	4.99	97,918
Year 7	2005	19893	4.98	99,167
Year 8	2006	20170	4.98	100,406
Year 9	2007	21036	4.97	104,570
Year 10	2008	19949	4.96	99,027
5 Year Baseline Population Calculations				
Year 1	2004	19615	4.99	97,918
Year 2	2005	19893	4.98	99,167
Year 3	2006	20170	4.98	100,406
Year 4	2007	21036	4.97	104,570
Year 5	2008	19949	4.96	99,027
2020 Compliance Year Population Calculations				
	2020	20373	4.88 **	99,347

QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELo QUESTIONS / ISSUES? CONTACT THE MWELo HELP DESK

F-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610064	East Valley Water District	21,655	18,374
Total:		21,655	18,374

2-2 | Public Water Systems

STATUS: Published

NOTES: -

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS: Published

NOTES: -

Wholesale Water Supplier Name

San Bernardino Valley Municipal Water District
--

3-1R | Current & Projected Population

STATUS:

NOTES: -

Population Served	2020	2025	2030	2035	2040	2045
Total	99,347	104,500	108,224	112,080	115,792	119,626
Total	99,347	104,500	108,224	112,080	115,792	119,626

4-1R | Actual Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Residential	Drinking Water	10,589
Multi-Family	Multi-Family	Drinking Water	3,377
Commercial	Commercial	Drinking Water	1,873
Landscape	Irrigation Commercial	Drinking Water	1,725
Other	Fire Service	Drinking Water	3
Other	Bulk Water	Drinking Water	143
Losses	Nonrevenue	Drinking Water	664
Total:			18,374

4-2R | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Residential	11,211	11,589	11,966	12,316	12,667
Multi-Family	Multi-Family	3,497	3,618	3,738	3,850	3,962
Commercial	Commercial	1,939	2,006	2,073	2,135	2,197
Landscape	Irrigation Commercial	1,787	1,848	1,910	1,967	2,024
Other	Fire Service	3	3	3	4	4
Other	Bulk Water	148	153	158	163	168
Losses	Nonrevenue	1,115	1,153	1,191	1,226	1,261
Total:		19,702	20,371	21,040	21,661	22,283

4-3R | Total Gross Water Use

STATUS:

NOTES: -

	2020	2020	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	18,374	19,702	20,371	21,040	21,661	22,283
Recycled Water Demand* From Table 6-4R	-	-	-	-	-	-
Total Water Use:	18,374	19,702	20,371	21,040	21,661	22,283

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES:

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	1,518
1	2017	1,854
1	2018	1,082
1	2019	503
1	2020	664 (Estimated)

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES: -

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS:

NOTES: -

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	1999	2008	211	172
5 Year	2004	2008	207	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
165	0	0	0	0	0	0	Yes
*All values are in Gallons per Capita per Day (GPCD)							

6-1R | Groundwater Volume Pumped

STATUS:

NOTES: -

Select One						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Bunker Hill (part of SBBA)	12,792	15,217	14,525	12,940	15,169
Total:		12,792	15,217	14,525	12,940	15,169

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
East Valley Water District	Metered	6,815	City of San Bernardino	San Bernardino Water Reclamation Plant (WRP)	No	No
Total:		6,815				

6-4R | Recycled Water Direct Beneficial Uses Within Service Area

STATUS:

NOTES:

The supplier will complete the table.										
Name of Supplier Producing (Treating) the Recycled Water:			East Valley Water District							
Name of Supplier Operating the Recycled Water Distribution System:			East Valley Water District							
Supplemental Volume of Water Added in 2020:										0%
Source of 2020 Supplemental Water:										
Beneficial Use Type	Potential Beneficial Uses of Recycled Water	Amount of Potential Uses of Recycled Water	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045
Landscape Irrigation (excludes golf courses)										
Golf Course Irrigation										
Commercial Use										
Industrial Use										
Geothermal and Other Energy Production										
Seawater Intrusion Barrier										
Recreational Impoundment										
Wetlands or Wildlife Habitat										
Groundwater Recharge (IPR)*	Recharge Bunker Hill Basin through percolation	0	No use in 2020	Tertiary						
Surface Water Augmentation (IPR)*										
Direct Potable Reuse										
Total:					-	-	-	-	-	-
Internal Reuse (Not included in Statewide Recycled Water Volume).										

*IPR - Indirect Potable Reuse

6-5R | 2015 Recycled Water Use Projection Compared to 2020 Actual

STATUS:

NOTES:

The supplier will complete the table.

Use Type	2015 Projection for 2020	2020 Actual Use
Agricultural Irrigation		
Landscape Irrigation (excludes golf courses)		
Golf Course Irrigation		
Commercial Use		
Industrial Use		
Geothermal and Other Energy Production		
Seawater Intrusion Barrier		
Recreational Impoundment		
Wetlands or Wildlife Habitat		
Groundwater Recharge (IPR)*	6,700	-
Surface Water Augmentation (IPR)*		
Direct Potable Reuse		
Total:	6,700	-

6-6R | Methods to Expand Future Recycled Water Use

STATUS:

NOTES: -

The supplier will complete the table below.			
Name of Action	Description	Planned Implementation Year	Expected Increase of Recycled Water Use
Sterling Natural Resource Center	Groundwater recharge	2022	8,200
Sterling Natural Resource Center	Groundwater recharge	2030	290
Sterling Natural Resource Center	Groundwater recharge	2035	300
Sterling Natural Resource Center	Groundwater recharge	2040	300
Sterling Natural Resource Center	Groundwater recharge	2045	300
Total:			9,390

6-7R | Expected Future Water Supply Projects or Programs

STATUS:

NOTES: -

The supplier will complete the table.						
Name of Future Projects or Programs	Joint Project with Other Suppliers	Agency Name	Description	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier
Sterling Natural Resource Center	Yes	San Bernardino Valley Municipal Water District	New wastewater reclamation plant and improved groundwater recharge facility	2022	All Year Types	8,200
Sterling Natural Resource Center	Yes	San Bernardino Valley Municipal Water District	Increase in RW production capacity	2030	All Year Types	290
Sterling Natural Resource Center	Yes	San Bernardino Valley Municipal Water District	Increase in RW production capacity	2035	All Year Types	300
Sterling Natural Resource Center	Yes	San Bernardino Valley Municipal Water District	Increase in RW production capacity	2040	All Year Types	300
Sterling Natural Resource Center	Yes	San Bernardino Valley Municipal Water District	Increase in RW production capacity	2045	All Year Types	300

6-8R | Actual Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill (part of SBBA)	15,169	Drinking Water	
Surface water (not desalinated)	Santa Ana River (part of SBBA)	997	Drinking Water	
Purchased or Imported Water	SWP - Direct Deliveries	2,208	Drinking Water	
Total:		18,374		-

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	10,257		10,736		11,205		11,620		12,035	
Surface water (not desalinated)	Santa Ana River	1,700		1,700		1,700		1,700		1,700	
Purchased or Imported Water	SWP - Direct Deliveries	2,500		2,500		2,500		2,500		2,500	
Recycled Water	Bunker Hill - Recycled Water Recharge	8,200		8,490		8,790		9,090		9,390	
Total:		22,657	-	23,426	-	24,195	-	24,910	-	25,625	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	22,657	23,426	24,195	24,910	25,625
Demand Totals From Table 4-3R	19,702	20,371	21,040	21,661	22,283
Difference:	2,955	3,056	3,156	3,249	3,342

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	24,923	25,769	26,615	27,401	28,188
Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:	3,251	3,361	3,472	3,574	3,677

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES: -

		2025	2030	2035	2040	2045
First Year	Supply Totals	24,923	25,769	26,615	27,401	28,188
	Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:		3,251	3,361	3,472	3,574	3,677
Second Year	Supply Totals	24,923	25,769	26,615	27,401	28,188
	Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:		3,251	3,361	3,472	3,574	3,677
Third Year	Supply Totals	24,923	25,769	26,615	27,401	28,188
	Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:		3,251	3,361	3,472	3,574	3,677
Fourth Year	Supply Totals	24,923	25,769	26,615	27,401	28,188
	Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:		3,251	3,361	3,472	3,574	3,677
Fifth Year	Supply Totals	24,923	25,769	26,615	27,401	28,188
	Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:		3,251	3,361	3,472	3,574	3,677
Sixth Year	Supply Totals	24,923	25,769	26,615	27,401	28,188
	Demand Totals	21,672	22,408	23,143	23,827	24,511
Difference:		3,251	3,361	3,472	3,574	3,677

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	20,503
	Total Supplies	23,579
	Surplus/Shortfall without WSCP Action	3,076
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	3,076
	Resulting Percent Use Reduction from WSCP Action	0%
2022	Gross Water Use	20,796
	Total Supplies	23,915
	Surplus/Shortfall without WSCP Action	3,119
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	3,119
	Resulting Percent Use Reduction from WSCP Action	0%
2023	Gross Water Use	21,088
	Total Supplies	24,251
	Surplus/Shortfall without WSCP Action	3,163
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	3,163
	Resulting Percent Use Reduction from WSCP Action	0%
2024	Gross Water Use	21,380
	Total Supplies	24,587
	Surplus/Shortfall without WSCP Action	3,207
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	3,207
	Resulting Percent Use Reduction from WSCP Action	0%
2025	Gross Water Use	21,672
	Total Supplies	24,923
	Surplus/Shortfall without WSCP Action	3,251
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	3,251
	Resulting Percent Use Reduction from WSCP Action	0%

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES: -

Shortage Level	Percent Shortage Range ¹ (Numerical Value as	Water Shortage Condition
1	Up to 10%	Normal Condition (EVWD Stage 1) - Voluntary Conservation Measures Normal conditions shall be in effect when the District is able to meet all the water demands of its customers in the immediate future. During normal conditions, all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to that necessary for ordinary domestic and commercial purposes.
2	Up to 20%	Threatened Water Supply Condition (EVWD Stage 2) - In the event of a threatened water supply shortage which could affect the District's ability to provide water for ordinary domestic and commercial uses, the Board of Directors shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the District. The Board may then, by resolution, declare a water shortage condition to prevail.
3	Up to 30%	Threatened Water Supply Condition (EVWD Stage 2) - In the event of a threatened water supply shortage which could affect the District's ability to provide water for ordinary domestic and commercial uses, the Board of Directors shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the District. The Board may then, by resolution, declare a water shortage condition to prevail.
4	Up to 40%	Water Shortage Emergency: Mandatory Conservation Measures (EVWD Stage 3) - In the event of a water shortage emergency in which EVWD may be prevented from meeting the water demands of its customers, the Board of Directors shall, if possible, given the time and circumstances, immediately hold a public hearing at which customers of EVWD shall have the opportunity to protest and to present their respective needs to the Board. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The General Manager/CEO is empowered to declare a water shortage emergency, subject to the ratification of the Board of Directors within 72 hours of such declaration. The Ordinance provides for exceptions under certain circumstances, establishes enforcement provisions, defines the methods for declaring and terminating water conservation stages, and provides for the form of notices and decisions of the Board of Directors.

5	Up to 50%	<p>Water Shortage Emergency: Mandatory Conservation Measures (EVWD Stage 3) - In the event of a water shortage emergency in which EVWD may be prevented from meeting the water demands of its customers, the Board of Directors shall, if possible, given the time and circumstances, immediately hold a public hearing at which customers of EVWD shall have the opportunity to protest and to present their respective needs to the Board. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The General Manager/CEO is empowered to declare a water shortage emergency, subject to the ratification of the Board of Directors within 72 hours of such declaration. The Ordinance provides for exceptions under certain circumstances, establishes enforcement provisions, defines the methods for declaring and terminating water conservation stages, and provides for the form of notices and decisions of the Board of Directors.</p>
6	>50%	<p>Water Shortage Emergency: Mandatory Conservation Measures (EVWD Stage 3) - In the event of a water shortage emergency in which EVWD may be prevented from meeting the water demands of its customers, the Board of Directors shall, if possible, given the time and circumstances, immediately hold a public hearing at which customers of EVWD shall have the opportunity to protest and to present their respective needs to the Board. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The General Manager/CEO is empowered to declare a water shortage emergency, subject to the ratification of the Board of Directors within 72 hours of such declaration. The Ordinance provides for exceptions under certain circumstances, establishes enforcement provisions, defines the methods for declaring and terminating water conservation stages, and provides for the form of notices and decisions of the Board of Directors.</p>
<p>¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.</p>		

8-2 | Demand Reduction Actions

STATUS:

NOTES:

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
All	Improve Customer Billing	0-1%	EVWD has established budget-based rates for all customers to encourage efficient use of water.	Yes
All	Increase Frequency of Meter Reading	0-1%	EVWD has upgraded its meters to Advanced Metering Infrastructure (AMI) meters to provide more timely information on water use.	Yes
All	Offer Water Use Surveys	0-1%	EVWD provides home water use evaluations at no charge to its customers. EVWD will provide historical water use data to commercial and industrial facilities for use in developing a water conservation plan for their facilities	Yes
All	Provide Rebates on Plumbing Fixtures and Devices	0-1%	EVWD has programs to provide rebates to customers for purchase of High Efficiency Toilets, High Efficiency Showerheads, and High Efficiency Washing Machines.	Yes
All	Provide Rebates for Landscape Irrigation Efficiency	0-1%	EVWD has programs to provide rebates to customers for purchase of Weather-Based Irrigation Controllers and High Efficiency Sprinkler Nozzles.	Yes
	Expand Public Information Campaign ²	0-20%	Commercial and industrial facilities shall, upon request of the General Manager, provide EVWD with a plan to conserve water at their facilities. EVWD will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period. The facility will be expected to provide EVWD with a plan to conserve or reduce the amount of water used by that percentage deemed by the Board of Director to be necessary under the circumstances. After review and approval by the General Manager, the water conservation plan shall be considered subject to inspection and enforcement by EVWD.	Yes

2	CII - Restaurants may only serve water upon request	0%-1%	Restaurants are not to provide drinking water to patrons except by request.	Yes
2	CII - Lodging establishment must offer opt out of linen service	0%-1%	Hotels and motels must offer their guests the option to not have their linens and towels laundered daily, and must prominently display this option in each room.	Yes
2	Landscape - Limit landscape irrigation to specific days	0%-5%	Upon notice and public hearing, EVWD may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. The irrigation of exterior vegetation at other than these times shall be considered to be a waste of water.	Yes
2	Landscape - Limit landscape irrigation to specific times	0%-5%	Exterior landscape plans for all new commercial and industrial development shall provide for timed irrigation and shall consider the use of drought resistance varieties of flora. Such plans shall be presented to and approved by EVWD prior to issuance of a water service letter	Yes
2	Landscape - Limit landscape irrigation to specific times	0%-5%	Public and private parks, golf courses, swimming pools and school grounds which use water provided by the District shall use water for irrigation and pool filling between the hours of 8:00 p.m. and 6:00 a.m.	Yes
2	Landscape - Other landscape restriction or prohibition	0%-5%	Persons receiving water from EVWD who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the General Manager, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0%-5%	Any water used on premises that is allowed to escape the premises and run off into gutters or storm drains shall be considered a waste of water.	Yes
2	Other - Prohibit use of potable water for washing hard surfaces	0%-1%	No water provided by EVWD shall be used for the purposes of wash-down of impervious areas, without specific written authorization of the General Manager/CEO.	Yes

2	Landscape - Other landscape restriction or prohibition	0%-5%	Medians and bordering parkways located within the right-of-way are prohibited from using potable water to irrigate turf or other high water use plant material as identified by the Water Use Classifications of Landscaping Species (WUCOLS) Guide. Bordering parkways are considered the strips of non-functional ornamental turf adjacent to the street. The continued irrigation and preservation of trees is encouraged.	Yes
2	Other - Require automatic shut of hoses	0%-1%	The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or a commercial facility so designated on EVWD's billing records.	Yes
2	Pools and Spas - Require covers for pools and spas	0%-1%	All residential, public and recreational swimming pools, of all size, shall use evaporation resistant covers and shall recirculate water. Any swimming pool which does not have a cover installed during periods of non-use shall be considered a waste of water.	Yes
2	Other water feature or swimming pool restriction	0%-1%	Operating a water fountain or other decorative water feature that does not use re-circulated water is prohibited.	Yes
2	CII - Other CII restriction or prohibition	0%-1%	Persons receiving water from the District who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the General Manager, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties. Commercial and industrial facilities shall, upon request of the General Manager, provide the District with a plan to conserve water at their facilities. The District will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period, or the State of California approved conservation base year. The facility will be expected to provide the District with a plan to conserve or reduce the amount of water used by that percentage deemed by the Board of Directors to be necessary under the circumstances. After review and approval by the General Manager, the water conservation plan shall be considered subject to inspection and enforcement by the District.	Yes

3	Landscape - Other landscape restriction or prohibition	1-5%	Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.	Yes
3	Landscape - Prohibit all landscape irrigation	1%-5%	Watering of parks, school grounds, golf courses, lawns, and landscape irrigation is prohibited.	Yes
3	Other - Prohibit use of potable water for construction and dust control	0%-1%	No new construction meter permits shall be issued by EVWD. All existing construction meters shall be removed and/or locked.	Yes
3	Other - Prohibit use of potable water for washing hard surfaces	0%-1%	Washing down of driveways, parking lots or other impervious surfaces is prohibited.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0%-1%	Washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water is prohibited.	Yes
3	Other water feature or swimming pool restriction	0%-1%	Filling or adding water to swimming pools, wading pools, spas, ornamental ponds, fountains, and artificial lakes are prohibited.	Yes

8-3R | Supply Augmentation & Other Actions

STATUS:

NOTES:

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
3	Other purchases	0-100%	EVWD has emergency water supply connections to two adjacent water agencies (SBMWD and the City of Riverside), volume depends on supply availability from neighboring agency

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of Highland	Yes	Yes	
City of San Bernardino	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	East Valley Water District		Reporting Period Start Date	1/1/2016
Water Delivery Product	Retail Potable Deliveries		Reporting Period End Date	12/30/2016
	Urban Water Supplier Operational Control			
	Sum of all Water Management Process		Non-Consequential Hydropower	
	Total Utility		Hydropower	Net Utility
Volume of Water Entering Process (AF)	17300		0	17300
Energy Consumed (kWh)	15051699		0	15051699
Energy Intensity (kWh/AF)	870.0		0.0	870.0
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy		0.0 kWh
Data Quality Narrative	Total energy consumed in 2016 was quantified through meter data. Data was obtained through the 1 Year Annual Savings Report. Note that in May 2018 a hydroelectric power generation facility project was completed. Turbines at the facility will be turned by water flowing into the District from the StateWater Project to produce up to 220 KW.			
Water Supply Narrative	EVWD's water supply consists primarily of groundwater from wells in the western portion of the service area. These wells, in the San Bernardino Basin Area (SBBA), supply approximately 80% of the total water supply. In addition to groundwater, Plant 134, an 8-MGD water treatment plant, EVWD provides treated surface water from the Santa Ana River and the SWP by way of Plant 134, an 8-MGD water treatment plant.			

F-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	22,052	Acre Feet (AF)
	2008 total volume of delivered recycled water	0	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	0	Percent
	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	2004	
	Year ending baseline period range ⁴	2008	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES: -

Method for Population Estimates	
No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
Yes	3. DWR Population Tool
No	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES: -

Year		Population
10 to 15 Year Baseline Population		
Year 1	1999	89,068
Year 2	2000	87,143
Year 3	2001	86,844
Year 4	2002	90,261
Year 5	2003	96,568
Year 6	2004	99,566
Year 7	2005	100,559
Year 8	2006	101,536
Year 9	2007	105,453
Year 10	2008	99,585
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2004	99,566
Year 2	2005	100,559
Year 3	2006	101,536
Year 4	2007	105,453
Year 5	2008	99,585
2020 Compliance Year Population		
2020		99,347

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	1,999	21,443			0		-	21,443
Year 2	2,000	22,271			0		-	22,271
Year 3	2,001	22,271			0		-	22,271
Year 4	2,002	21,321	1,271		0		-	20,050
Year 5	2,003	23,110	1,117		0		-	21,993
Year 6	2,004	24,597	1,698		0		-	22,899
Year 7	2,005	22,614			0		-	22,614
Year 8	2,006	27,186	2,293		0		-	24,893
Year 9	2,007	24,519	1,581		0		-	22,938
Year 10	2,008	23,951			0		-	23,951
Year 11	0	0			0		-	0
Year 12	0	0			0		-	0
Year 13	0	0			0		-	0
Year 14	0	0			0		-	0
Year 15	0	0			0		-	0
10 - 15 year baseline average gross water use:								22,532
5 Year Baseline - Gross Water Use								
Year 1	2,004	24,597	1,698		0		-	22,899
Year 2	2,005	22,614			0		-	22,614
Year 3	2,006	27,186	2,293		0		-	24,893
Year 4	2,007	24,519	1,581		0		-	22,938
Year 5	2,008	23,951			0		-	23,951
5 year baseline average gross water use:								23,459
2020 Compliance Year - Gross Water Use								
2020		18,374			0		-	18,374

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source			
Name of Source:		SBBA	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	1,999	17,653	17,653
Year 2	2,000	18,503	18,503
Year 3	2,001	18,503	18,503
Year 4	2,002	17,288	17,288
Year 5	2,003	19,401	19,401
Year 6	2,004	21,547	21,547
Year 7	2,005	18,788	18,788
Year 8	2,006	23,120	23,120
Year 9	2,007	20,060	20,060
Year 10	2,008	20,813	20,813
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,004	21,547	21,547
Year 2	2,005	18,788	18,788
Year 3	2,006	23,120	23,120
Year 4	2,007	20,060	20,060
Year 5	2,008	20,813	20,813
2020 Compliance Year - Water into Distribution System			
2020		15,169	15,169

SB X7-4A | Volume Entering the Distribution System(s)

The supplier's own water source				
Name of Source:		Santa Ana River		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,999	2,939		2,939
Year 2	2,000	3,056		3,056
Year 3	2,001	3,056		3,056
Year 4	2,002	3,353		3,353
Year 5	2,003	2,968		2,968
Year 6	2,004	2,298		2,298
Year 7	2,005	3,103		3,103
Year 8	2,006	3,206		3,206
Year 9	2,007	3,752		3,752
Year 10	2,008	3,138		3,138
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,004	2,298		2,298
Year 2	2,005	3,103		3,103
Year 3	2,006	3,206		3,206
Year 4	2,007	3,752		3,752
Year 5	2,008	3,138		3,138
2020 Compliance Year - Water into Distribution System				
2020		997		997

SB X7-4A | Volume Entering the Distribution System(s)

A purchased or imported source.				
Name of Source:		State Water Project Water Purchase		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,999	851		851
Year 2	2,000	712		712
Year 3	2,001	712		712
Year 4	2,002	680		680
Year 5	2,003	741		741
Year 6	2,004	752		752
Year 7	2,005	723		723
Year 8	2,006	860		860
Year 9	2,007	707		707
Year 10	2,008	0		0
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,004	752		752
Year 2	2,005	723		723
Year 3	2,006	860		860
Year 4	2,007	707		707
Year 5	2,008	0		0
2020 Compliance Year - Water into Distribution System				
2020		2,208		2,208

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3		Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	89,068	21,443	215
Year 2	2000	87,143	22,271	228
Year 3	2001	86,844	22,271	229
Year 4	2002	90,261	20,050	198
Year 5	2003	96,568	21,993	203
Year 6	2004	99,566	22,899	205
Year 7	2005	100,559	22,614	201
Year 8	2006	101,536	24,893	219
Year 9	2007	105,453	22,938	194
Year 10	2008	99,585	23,951	215
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:				211
5 Year Baseline GPCD				
Year 1	2004	99,566	22,899	205
Year 2	2005	100,559	22,614	201
Year 3	2006	101,536	24,893	219
Year 4	2007	105,453	22,938	194
Year 5	2008	99,585	23,951	215
5 Year Average Baseline GPCD:				207
2020 Compliance Year GPCD				
2020		99,347	18,374	165

SB X7-6 | Gallons per Capita per Day

STATUS: Not Started

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	211
5 Year Baseline GPCD	207
2020 Compliance Year GPCD	165

SB X7-7 | 2020 Target Method

STATUS:

NOTES: -

Select Only One	
No	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
Yes	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
211	169

SB X7-7E | 2020 Target Method 3

Select All that Apply	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets
		North Coast	137
		North Lahontan	173
		Sacramento River	176
		San Francisco Bay	131
		San Joaquin River	174
		Central Coast	123
		Tulare Lake	188
		South Lahontan	170
		South Coast	149
		Colorado River	211
Target (If more than one region is selected, this value is calculated.)			

SB X7-7F | Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD From SB X7-5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
207	196	172	172
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD. ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES: -

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
172	211	191

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
165	172				0	165	165	YES

F-8: AWWA Water Audits



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: **East Valley Water District**
 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

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

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

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="17,163.880"/>	acre-ft/yr
Water imported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr

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

WATER SUPPLIED: **17,163.880** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="15,447.055"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="155.928"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="42.910"/>	acre-ft/yr

AUTHORIZED CONSUMPTION: **15,645.892** acre-ft/yr

Click here: for help using option buttons below

Pcnt:	<input type="text" value=""/>	Value:	<input type="text" value="42.910"/>	acre-ft/yr
-------	-------------------------------	--------	-------------------------------------	------------

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

1,517.988 acre-ft/yr

Apparent Losses

Unauthorized consumption: acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="482.566"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="38.618"/>	acre-ft/yr

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

Apparent Losses: **564.094** acre-ft/yr

Pcnt:	<input type="text" value="0.25%"/>	Value:	<input type="text" value=""/>	acre-ft/yr
-------	------------------------------------	--------	-------------------------------	------------

<input type="text" value="3.00%"/>	<input type="text" value=""/>	Value:	<input type="text" value=""/>	acre-ft/yr
<input type="text" value="0.25%"/>	<input type="text" value=""/>	Value:	<input type="text" value=""/>	acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **953.894** acre-ft/yr

WATER LOSSES: **1,517.988** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,716.825** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="316.0"/>	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="23,235"/>	
Service connection density:	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="74"/>	conn./mile main	

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

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

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

Average operating pressure: psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="\$23,187,016"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="\$1.99"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="\$156.57"/>	\$/acre-ft <input type="checkbox"/> 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: Variable production cost (applied to Real Losses)**



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: **East Valley Water District**
 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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	+ ?	5	18,654.813	acre-ft/yr
Water imported:	+ ?	n/a		acre-ft/yr
Water exported:	+ ?	n/a		acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
+ ?	3	
+ ?		
+ ?		

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

WATER SUPPLIED: **18,654.813** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	16,705.460	acre-ft/yr
Billed unmetered:	+ ?	n/a		acre-ft/yr
Unbilled metered:	+ ?	9	49.000	acre-ft/yr
Unbilled unmetered:	+ ?	5	46.637	acre-ft/yr

AUTHORIZED CONSUMPTION: **16,801.097** acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:	acre-ft/yr
	46.637	

Use buttons to select percentage of water supplied OR value

Pcnt:	Value:	acre-ft/yr
0.25%		

Pcnt:	Value:	acre-ft/yr
3.00%		
0.25%		

WATER LOSSES (Water Supplied - Authorized Consumption) **1,853.716** acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **46.637** acre-ft/yr
 Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies: + ? 3 **518.179** acre-ft/yr
 Systematic data handling errors: + ? **41.764** acre-ft/yr
 Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: **606.580** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **1,247.136** acre-ft/yr

WATER LOSSES: **1,853.716** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **1,949.353** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: + ? 9 316.0 miles
 Number of active AND inactive service connections: + ? 10 23,343
 Service connection density: ? **74** conn./mile main

Are customer meters typically located at the curbside 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	\$22,737,363	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	9	\$2.27	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$140.60	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association

?	Click to access definition	Water Audit Report for: East Valley Water District (3610064)
+	Click to add a comment	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

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

WATER SUPPLIED

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

Volume from own sources:	+	?	5	18,695.000	acre-ft/yr
Water imported:	+	?	n/a		acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

	Pcnt:		Value:						
	3								

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

WATER SUPPLIED: 18,695.000 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	7	17,480.000	acre-ft/yr
Billed unmetered:	+	?	n/a	0.000	acre-ft/yr
Unbilled metered:	+	?	9	124.000	acre-ft/yr
Unbilled unmetered:	+	?	5	9.348	acre-ft/yr

AUTHORIZED CONSUMPTION: 17,613.348 acre-ft/yr

Click for help using option buttons

	Pcnt:		Value:						

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

1,081.653 acre-ft/yr

Apparent Losses

Unauthorized consumption:	+	?	5	46.738	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed					
Customer metering inaccuracies:	+	?	3	268.081	acre-ft/yr
Systematic data handling errors:	+	?	5	43.700	acre-ft/yr
Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed					
Apparent Losses:	?			358.519	acre-ft/yr

	Pcnt:		Value:						
	0.25%								
	1.50%								
	0.25%								

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 723.134 acre-ft/yr

WATER LOSSES: 1,081.653 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 1,215.000 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	9	317.7	miles
Number of active AND inactive service connections:	+	?	10	23,381	
Service connection density:	?			74	conn./mile main

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

Average length of customer service line: **5** (length of service line, beyond the property boundary, that is the responsibility of the utility)
Average operating pressure: **5** psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$23,908,733	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	9	\$2.27	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	5	\$140.64	\$/acre-ft

Use Customer Retail Unit Cost to value real

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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)



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: **East Valley Water District (3610064)**
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: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/> <input type="button" value="?"/> 5	16,976.620	acre-ft/yr
Water imported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a		acre-ft/yr
Water exported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a		acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	<input type="button" value="+"/> <input type="button" value="?"/> 5	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>	Value:	-4.845	acre-ft/yr
	<input type="button" value="+"/> <input type="button" value="?"/>	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>			acre-ft/yr
	<input type="button" value="+"/> <input type="button" value="?"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>			acre-ft/yr

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

WATER SUPPLIED: 16,981.465 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/> <input type="button" value="?"/> 7	16,434.559	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	0.000	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/> <input type="button" value="?"/> 9	35.010	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> 7	8.491	acre-ft/yr

AUTHORIZED CONSUMPTION: 16,478.060 acre-ft/yr

Click here: for help using option buttons below

Pcnt: Value: 8.491 acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt: 0.25% Value: acre-ft/yr

1.50% Value: acre-ft/yr

0.25% Value: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

503.405 acre-ft/yr

Apparent Losses

Unauthorized consumption: **42.454** acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/> <input type="button" value="?"/> 3	250.806	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/> <input type="button" value="?"/> 5	41.086	acre-ft/yr

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

Apparent Losses: 334.346 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **169.059** acre-ft/yr

WATER LOSSES: 503.405 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 546.906 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/> <input type="button" value="?"/> 9	317.7	miles
Number of active AND inactive service connections:	<input type="button" value="+"/> <input type="button" value="?"/> 10	23,415	
Service connection density:	<input type="button" value="?"/> 74		conn./mile main

Are customer meters typically located at the curbside or property 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 psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/> <input type="button" value="?"/> 10	\$22,580,710	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 10	\$2.23	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 5	\$148.58	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 63 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: Variable production cost (applied to Real Losses)

F-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact East Valley Water District to obtain the most current version of the WSCP.

East Valley Water District Water Shortage Contingency Plan

JUNE 2021

East Valley Water District





EAST VALLEY WATER DISTRICT

Water Shortage Contingency Plan

East Valley Water District

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
EVWD	East Valley Water District
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
LHMP	Local Hazard Mitigation Plan
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

East Valley Water District

This Water Shortage Contingency Plan is a strategic plan that the East Valley Water District uses to prepare for and respond to water shortages.

The Water Shortage Contingency Plan (WSCP) is a strategic plan that East Valley Water District (EVWD) uses to prepare for and respond to foreseeable and unforeseeable water shortages. A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that EVWD will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help EVWD maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with EVWD's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes EVWD's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes three water shortage stages to clearly identify and prepare for shortages that are in compliance with regulatory requirements.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant EVWD the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, EVWD completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. EVWD is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, EVWD implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, EVWD's water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, EVWD will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, EVWD must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to EVWD at the time of analysis and can be update or revised at any time if circumstances change.

EVWD will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **Senior Engineer**
- **Operations Manager**
- **Production Supervisor**
- **Conservation Coordinator**
- **Business Services Manager**
- **Public Affairs/Conservation Manager**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	Operations Manager Chief Financial Officer
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	<p>Each December, EVWD submits an order to Valley District for the volume of SWP water that is planned for use the following year. If the requested volume is not available due to reduced SWP supplies, EVWD will meet with Valley District and other SWP users to discuss reducing SWP orders and may update the Annual Assessment to reflect a shift from SWP to groundwater production, if needed.</p> <p>Estimates of available surface water supplies from the Santa Ana River will be based on contract month allotment and 25% of the river flows in non-contract months.</p> <p>The remainder of supply needs not met from SWP and surface water will be pumped from the SBBA. The SBBA is sustainably managed to provide long term supply reliability and is not anticipated to be impacted in dry years. In the unlikely event that local supplies are reduced, EVWD will coordinate with the BTAC to identify available supplies for the coming year.</p>	Operations Manager Senior Engineer
JAN - FEB	Consider potential constraints that may impact supply delivery	Identify any known regional or EVWD infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain	Operations Manager

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
		<p>capabilities, as well as any new projects that may add to system capacity.</p> <p>Identify any facilities out of service due to water quality problems, equipment failure, etc. that may impact normal water deliveries.</p> <p>Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs.</p>	
FEB	Convene WSCP Team to conduct Annual Assessment	<p>Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response stage and actions are recommended to reduce/eliminate the shortage.</p> <p>Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response actions are needed to comply with the State mandate.</p>	WSCP Team
JUNE	Board of Directors	<p>If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the EVWD Board of Directors, including the recommended shortage stage and response actions. The Board of Directors may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.</p>	General Manager Board of Directors Conservation Coordinator Public Affairs / Conservation Manager
ON-GOING	Implement WSCP actions, if needed	<p>Relevant members of EVWD staff will implement shortage response actions associated with the declared water shortage stage</p>	Conservation Coordinator Public Affairs / Conservation Manager

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

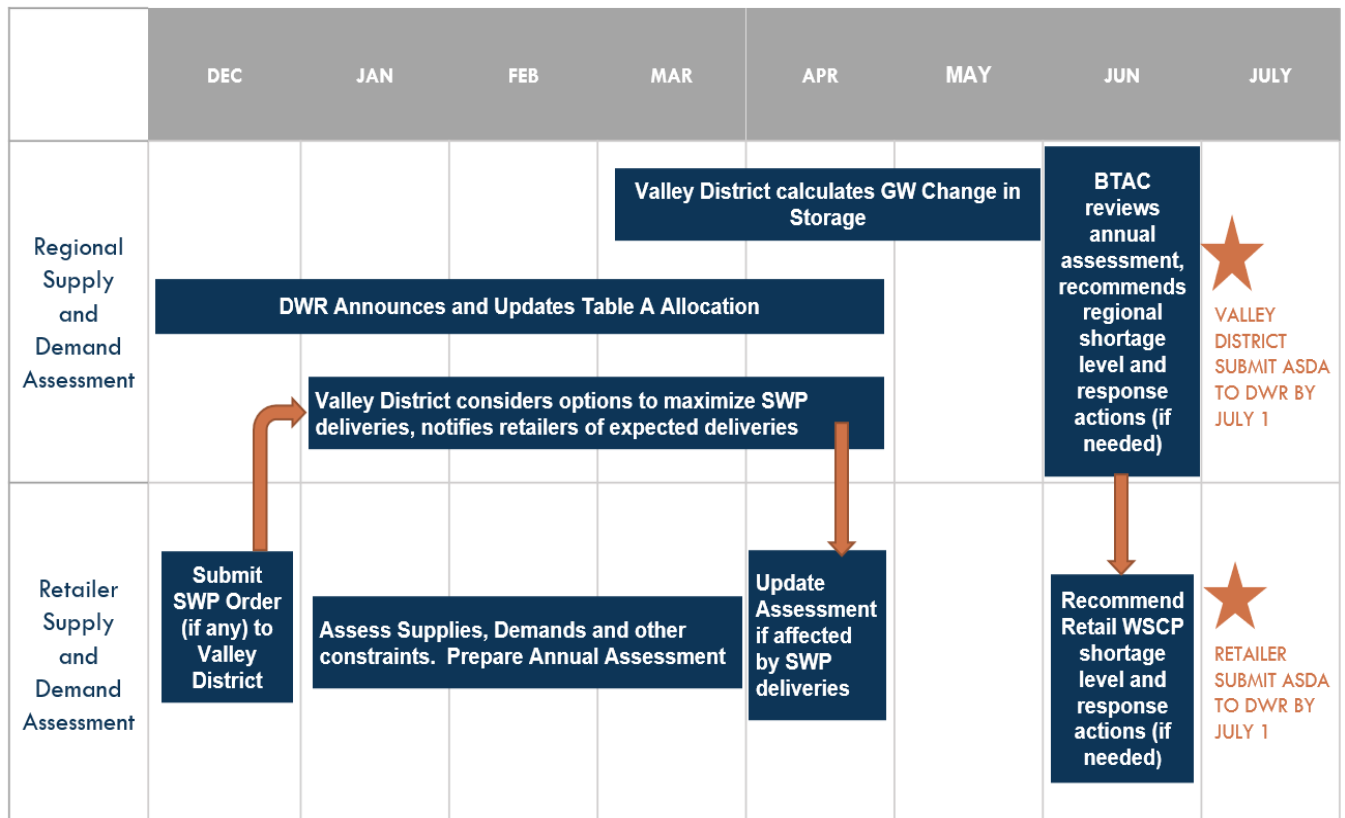


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

With the exception of a catastrophic failure of infrastructure, EVWD does not foresee imposing a water shortage stage except under the State’s direction, as occurred in 2014. If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that EVWD may implement.

EVWD uses three (3) shortage stages to identify and respond to water shortage emergencies. At a minimum, EVWD encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I – Normal Conditions:

Voluntary Conservation Measures Normal conditions shall be in effect when the District is able to meet all the water demands of its customers in the immediate future. During normal conditions, all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to that necessary for ordinary domestic and commercial purposes.

Stage II – Threatened Water Supply Condition:

In the event of a threatened water supply shortage which could affect the District's ability to provide water for ordinary domestic and commercial uses, the Board of Directors shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the District. The Board may then, by resolution, declare a water shortage condition to prevail, and the conservation measures in [Table 4](#) shall be in effect.

Stage III: Water Emergency

In the event of a water shortage emergency in which EVWD may be prevented from meeting the water demands of its customers, the Board of Directors shall, if possible, given the time and circumstances, immediately hold a public hearing at which customers of EVWD shall have the opportunity to protest and to present their respective needs to the Board. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The General Manager/CEO is empowered to declare a water shortage emergency, subject to the ratification of the Board of Directors within 72 hours of such declaration, and the rules in [Table 4](#) shall be in effect. The Ordinance provides for exceptions under certain circumstances, establishes enforcement provisions, defines the methods for declaring and terminating water conservation stages, and provides for the form of notices and decisions of the Board of Directors. The specific water supply conditions for triggering EVWD's mandated conservation measures and the expected reduction in water use are summarized in [Table 2](#).

The CWC outlines six standard water shortage stages that correspond to a shortage compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. EVWD is maintaining the current three shortage stages for this WSCP. A crosswalk defines how EVWD's current water shortage stages will align with the DWR's standardized 6 stages of shortage. A visual representation of this alignment is shown in [Figure 2](#)

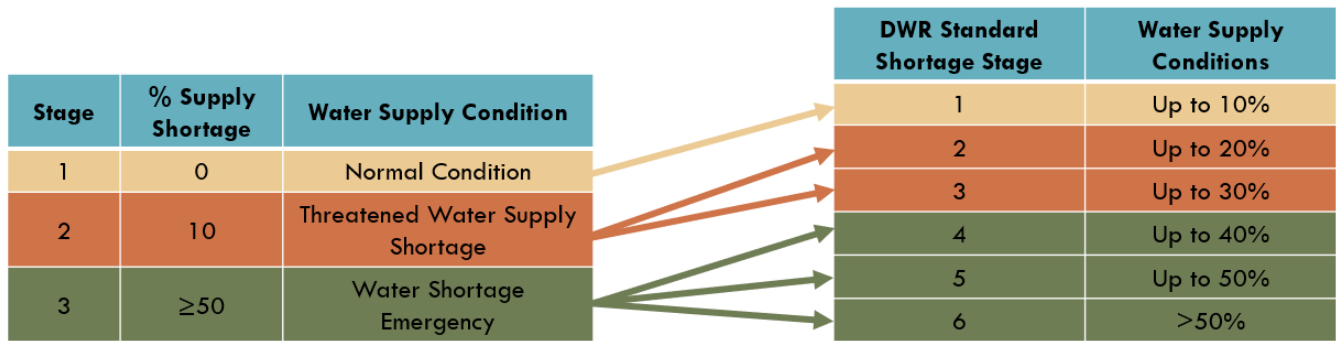


Figure 2. Crosswalk to DWR Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Condition (EVWD Stage 1)
2	Up to 20%	Threatened Water Supply Condition (EVWD Stage 2)
3	Up to 30%	Threatened Water Supply Condition (EVWD Stage 2)
4	Up to 40%	Water Shortage Emergency: Mandatory Conservation Measures (EVWD Stage 3)
5	Up to 50%	Water Shortage Emergency: Mandatory Conservation Measures (EVWD Stage 3)
6	>50%	Water Shortage Emergency: Mandatory Conservation Measures (EVWD Stage 3)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that must be implemented or considered for each stage to minimize social and economic impacts to the community.

In accordance with Water Code 10632(b) EVWD analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions EVWD can take in the event of a water shortage condition. EVWD currently maintains interconnections with SBMWD and the City of Riverside. During water shortage emergencies, EVWD may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
3	Other purchases	0-100%	EVWD has emergency water supply connections to two adjacent water agencies (SBMWD and the City of Riverside), volume depends on supply availability from neighboring agency

4.2 Demand Reduction

In addition to prohibitions on end uses, EVWD offers various rebates and programs to encourage conservation (i.e. ultra-low flush toilet replacements, high efficiency washing machines, etc.). EVWD uses budget based rate billing structure, which promotes water efficiency and allocates personal budget for each customer. The reduction goal is to balance supply and demand. **Table 4** summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
All	Improve Customer Billing	0-1%	EVWD has established budget-based rates for all customers to encourage efficient use of water.	Yes
All	Increase Frequency of Meter Reading	0-1%	EVWD has upgraded its meters to Advanced Metering Infrastructure (AMI) meters to provide more timely information on water use.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
All	Offer Water Use Surveys	0-1%	EVWD provides home water use evaluations at no charge to its customers. EVWD will provide historical water use data to commercial and industrial facilities for use in developing a water conservation plan for their facilities	Yes
All	Provide Rebates on Plumbing Fixtures and Devices	0-1%	EVWD has programs to provide rebates to customers for purchase of High Efficiency Toilets, High Efficiency Showerheads, and High Efficiency Washing Machines.	Yes
All	Provide Rebates for Landscape Irrigation Efficiency	0-1%	EVWD has programs to provide rebates to customers for purchase of Weather-Based Irrigation Controllers, High Efficiency Sprinkler Nozzles and Landscape Efficient Enhancements.	Yes
2	Expand Public Information Campaign	0-20%	Commercial and industrial facilities shall, upon request of the General Manager, provide EVWD with a plan to conserve water at their facilities. EVWD will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period. The facility will be expected to provide EVWD with a plan to conserve or reduce the amount of water used by that percentage deemed by the Board of Director to be necessary under the circumstances. After review and approval by the General Manager, the water conservation plan shall be considered subject to inspection and enforcement by EVWD.	Yes
2	CII - Restaurants may only serve water upon request	0-1%	Restaurants are not to provide drinking water to patrons except by request.	Yes
2	CII - Lodging establishment must offer opt out of linen service	0-1%	Hotels and motels must offer their guests the option to not have their linens and towels laundered daily and must prominently display this option in each room.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2	Landscape - Limit landscape irrigation to specific days	0-5%	Upon notice and public hearing, EVWD may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. The irrigation of exterior vegetation at other than these times shall be considered to be a waste of water.	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	Exterior landscape plans for all new commercial and industrial development shall provide for timed irrigation and shall consider the use of drought resistance varieties of flora. Such plans shall be presented to and approved by EVWD prior to issuance of a water service letter	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	Public and private parks, golf courses, swimming pools and school grounds which use water provided by the District shall use water for irrigation and pool filling between the hours of 6:00 p.m. and 6:00 a.m.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Persons receiving water from EVWD who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the General Manager, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Any water used on premises that is allowed to escape the premises and run off into gutters or storm drains shall be considered a waste of water.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	No water provided by EVWD shall be used for the purposes of wash-down of impervious areas, without specific written authorization of the General Manager/CEO.	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Medians and bordering parkways located within the right-of-way are prohibited from using potable water to irrigate turf or other high water use plant material as identified by the Water Use Classifications of Landscaping Species (WUCOLS) Guide. Bordering parkways are considered the strips of non-functional ornamental turf adjacent to the street. The continued irrigation and preservation of trees is encouraged.	Yes
2	Other - Require automatic shut-off hoses	0-1%	The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or a commercial facility so designated on EVWD's billing records.	Yes
2	Pools and Spas - Require covers for pools and spas	0-1%	All residential, public and recreational swimming pools, of all size, shall use evaporation resistant covers and shall recirculate water. Any swimming pool which does not have a cover installed during periods of non-use shall be considered a waste of water.	Yes
2	Other water feature or swimming pool restriction	0-1%	Operating a water fountain or other decorative water feature that does not use re-circulated water is prohibited.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2	CII - Other CII restriction or prohibition	0-1%	Persons receiving water from the District who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain and use irrigation equipment and practices which are the most efficient possible. Upon the request of the General Manager, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties. Commercial and industrial facilities shall, upon request of the General Manager, provide the District with a plan to conserve water at their facilities. The District will provide these facilities with information regarding the average monthly water use by the facility for the last two-year period, or the State of California approved conservation base year. The facility will be expected to provide the District with a plan to conserve or reduce the amount of water used by that percentage deemed by the Board of Directors to be necessary under the circumstances. After review and approval by the General Manager, the water conservation plan shall be considered subject to inspection and enforcement by the District.	Yes
3	Landscape - Other landscape restriction or prohibition	1-5%	Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.	Yes
3	Landscape - Prohibit all landscape irrigation	1-5%	Watering of parks, school grounds, golf courses, lawns, and landscape irrigation is prohibited.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
3	Other - Prohibit use of potable water for construction and dust control	0-1%	No new construction meter permits shall be issued by EVWD. All existing construction meters shall be removed and/or locked.	Yes
3	Other - Prohibit use of potable water for washing hard surfaces	0-1%	Washing down of driveways, parking lots or other impervious surfaces is prohibited.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water is prohibited.	Yes
3	Other water feature or swimming pool restriction	0-1%	Filling or adding water to swimming pools, wading pools, spas, ornamental ponds, fountains and artificial lakes are prohibited.	Yes

4.3 Operational Changes and Additional Mandatory Restrictions

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. EVWD will consider their operational procedures when it completes its Annual Assessment. Any additional mandatory restrictions implemented in response to the declaration of a shortage response stage, beyond the actions listed in [Table 3](#) and [Table 4](#) are listed in EVWD’s Ordinance No. 401 Section 15 – Water Conservation provided in [Attachment 1](#).

4.4 Emergency Response Plan

In 2020, EVWD completed a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America’s Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of EVWD’s infrastructure. The RRA assessed EVWD’s water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies

and characterizes both infrastructure-specific and system-wide vulnerabilities and threats and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of EVWD's system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential and for use by EVWD's staff only. However, EVWD can confirm that these plans meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to EVWD's infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, EVWD is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. EVWD may also implement its three-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 3), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In addition to the AWIA RRA and ERP, EVWD has a 2020 Local Hazard Mitigation Plan (LHMP) that includes an assessment of seismic risk and mitigation for water facilities. The contents of the LHMP document are confidential and for use by EVWD's staff only.

The LHMP identified a set of hazard mitigation actions that are intended to reduce the impact of hazards, including:

- Design new District facilities to withstand an 8.0 earthquake. This area of Southern California is a high earthquake risk and exists on the fault zone.
- Pursue funding for retrofit programs to bring non-compliant structures up to code. These codes help water agencies design and construct reservoirs, pump stations, groundwater wells, and pipelines that resist the forces of nature and ensure safety.

4.6 Shortage Response Action Effectiveness

EVWD has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#) when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

The East Valley Water District prioritizes effective communication, especially in times of a water shortage emergency. EVWD routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, and direct mail pieces to customers, newspaper advertisements, news releases, social media outreach, and

website content. EVWD continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

EVWD always discourages excessive water consumption. EVWD is not likely to implement penalties or charges for excessive use during short-term water shortages because they are limited in duration and, at the time of declaration, are not expected to last more than a few weeks. EVWD could establish restrictions or discontinue service in the case of repeat offenders under the Water Code of the State of California.

The District focuses much of the drought response on educating customers, informing them of ways to save, and serving as an informational resource. Unfortunately, there are times when additional measures must be utilized to protect the water supply. The District has measures in place to address violations of the Ordinance, which may result in the imposition of surcharges and restriction and/or termination of water service as set forth below:

1. **First Violation** -- Issuance of written notice of violation of water user. The notice shall be given pursuant to the requirements of Section 15.10 of Ordinance 401.
2. **Second Violation** -- For a second violation of Ordinance 401 within a 12-month period, or failure to comply with the notice of violation within 30 days after notice of imposition, a surcharge of \$100.00 is hereby imposed for the meter through which the wasted water was supplied.
3. **Third Violation** -- For a third violation of this ordinance within a 12-month period, or for continued failure to comply within 30 days after notice of an imposition of second violation sanctions, a one-month penalty surcharge in the amount of \$300.00 is hereby imposed for the meter through which the wasted water was supplied. Appeals for violation penalties may be granted by the Community Advisory Commission Board.
4. **Subsequent Violations** -- For any subsequent violation of this Ordinance, while in Stage No. 3, within the twenty-four (24) calendar months after a first violation as provided in Section 15.09.01 hereof, the penalty surcharge provided in Section 15.09.05 hereof shall be imposed and the District may discontinue water service to that customer at the premises or to the meter where the violation occurred. The charge for reconnection and restoration of normal service shall be as provided in the Rules and Regulations of the District. Such restoration of service shall not be made until the General Manager/CEO of the District as determined that the water user has provided reasonable assurances that future violations of this Ordinance by such user will not occur.

The General Manager/CEO may grant permits for uses of water otherwise prohibited under the shortage response actions if he determines that restrictions herein would either:

- Cause an unnecessary and undue hardship to the water user or the public

- Cause an emergency condition affecting the health, sanitation fire protection or safety of the water use or of the public

Such exceptions may be granted only upon written application. Upon granting such exception permit, the General Manager/CEO may impose any conditions determined to be just and proper.

7.0 Legal Authorities

A WSCP was originally prepared by EVWD in 1992, in response to Assembly Bill 11X (AB 11X) signed into law on October 14, 1991. The bill requires urban water suppliers providing municipal water directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, to draft a WSCP in case of a drought for the sixth consecutive year. Plan elements mandated by AB 11X are addressed therein. The Plan was subsequently incorporated into the EVWD Ordinance No. 401 Section 15 – Water Conservation (this is included in [Attachment 1](#)). This section of the Ordinance addresses water conservation measures the District has adopted for (1) normal conditions, (2) threatened water supply conditions, and (3) emergency water shortage conditions.

7.1 Water Shortage Emergency Declaration

In accordance with Water Code Section Division 1, Section 350 – EVWD shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, EVWD shall coordinate with the cities, county, and tribe in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

EVWD makes contributions to a rate stabilization fund contribution in accordance with a District Designated Fund Policy established in July 2010. Funds discussed in the policy include the Rate Stabilization Fund and the Capital Replacement Fund.

In the event of a water shortage, a two-point program will be utilized to meet the fiscal shortfall of reduced water revenues:

1. Reduce operation and maintenance expenses.
2. Defer selected capital improvement projects until water shortage situation improves.
3. Rate Stabilization Funds, once accumulated, will serve as a third means of meeting fiscal shortfalls.

To ensure EVWD's customers comply with Ordinance No. 401 Section 15 – Water Conservation and CWC Chapter 3.3 (Excessive Residential Water Use During Drought), additional costs may be incurred

to monitor and enforce response actions. The incurred cost may vary depending on the shortage stage and duration of the water shortage emergency.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. EVWD will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to the Community Advisory Commission and the Legislative and Public Outreach Committee for feedback. Changes to the WSCP would then be presented to EVWD's Board for discretionary approval. Once discretionary approval has been granted, EVWD will hold a public hearing, obtain any comments and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

EVWD adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in **June 2021** and a public hearing was held on **June 23, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The EVWD Board of Directors adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 23, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on EVWD's web site.

If EVWD identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

References

- California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.
- Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.
- United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: EVWD'S Ordinance – Water Conservation

ORDINANCE NO. 401

AN ORDINANCE OF THE EAST VALLEY WATER DISTRICT RESCINDING ORDINANCE NO. 399 ENTITLED "AN ORDINANCE ESTABLISHING RULES AND REGULATIONS FOR WATER SERVICE, ESTABLISHING A WATER DEPARTMENT, PROVIDING FOR INSTALLATION AND CONNECTION TO DISTRICT WATER MAINS, REGULATING CROSS-CONNECTION CONTROL".

Be it ordained by the Board of Directors of the East Valley Water District, as follows, that Ordinance No. 399 is hereby rescinded and this Ordinance 401 is enacted as follows:

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SECTION 2. GENERAL PROVISIONS

2.01 Short Title - This Ordinance may be cited as the "East Valley Water District Water Regulations and Service Ordinance".

2.02 Purpose - This Ordinance is intended to provide rules and regulations applicable to the administration and operational activities of the District. This Ordinance may be amended from time to time by action of the Board of Directors of the East Valley Water District.

2.03 Enabling Statutes - This Ordinance is adopted pursuant to the applicable provisions of Division 12 of the Water Code and Division 5, Chapter 7, Title 5, Division 2 of the Government Code, and further pursuant to the Constitution of the State of California. The District is further authorized by Water Code Section 31027 to prescribe and define by Ordinance those restrictions, prohibitions, and exclusions it may determine to be necessary pursuant to the California Constitution Article X, Section 2 and Water Code Sections 31026 and 350 et seq. to restrict the use of District water during threatened or existing water shortages. It is therefore the intent of the Board of Directors to establish by this Ordinance those procedures and policies necessary to the orderly administration of a water conservation program to prohibit waste and to restrict the use of water during a water shortage or emergency.

2.04 Application - This Ordinance shall apply to all water facilities constructed, maintained, and operated by the District.

2.05 Enterprise - The District will furnish and/or make available, a system, plant, works, and undertaking used for and useful in, the delivery of water for the District's service area, including all annexations thereto, lands, easements, rights in land, contract rights and franchises.

2.06 Separability - If any section, subsection, sentence, clause, phrase, or portion of this Ordinance or the application thereof to any person or circumstances are for any reason held to be unconstitutional or invalid by any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance or the application of such provision to other persons or circumstances. The governing body hereby declares that it would have passed this Ordinance or any section, sub-section, sentence, clause or phrase hereof irrespective of the fact

that one or more sections, subsections, sentences, clauses or phrases be declared to be unconstitutional.

2.07 Words and Phrases - For the purpose of this Ordinance all words used herein in the present tense shall include the future; all words in the plural number shall include the singular number; and all words in the singular number shall include the plural number.

2.08 Posting - Upon adoption, this Ordinance shall be entered in the minutes of the governing body and certified copies hereof shall be posted in three (3) public places and/or published in a newspaper of general circulation in the District service area within ten (10) days following its passage.

2.09 Means of Enforcement - The District hereby declares that the procedures contained herein are established as a means of enforcement of the terms and conditions of its ordinances, rules and regulations and not as a penalty.

2.10 Notices - Whenever a notice is required to be given under this Ordinance, unless different provisions are specifically made herein, such notice may be made either by personal delivery thereof to the person to be notified or by deposit in the U.S. mail in a sealed envelope, postage prepaid, addressed to such person at his last known business or residence address as the name appears in public records or other records pertaining to the matter to which the notice is directed. Service by mail shall be deemed to have been completed at the time of deposit in the post office.

Proof of giving any notice may be made by the certificate of any officer or employee of the District or by affidavit of any person over the age of eighteen years, which shows service in conformity with the Ordinance or other provisions of law applicable to the subject matter concerned.

2.11 Effect of Heading - The title, division or section headings contained in this Ordinance shall not be deemed to govern, limit or modify in any manner the scope, meaning or intent of any section or subsection of this Ordinance.

SECTION 3. DEFINITIONS

3.01 Applicant - Shall mean the person making application hereunder who must be either (a) the owner of the subject premises, (b) the agent or customer authorized in writing to make application hereunder on behalf of the owner of the subject premises or, (c) a licensed plumber or contractor authorized in writing to make application hereunder for the subject premises.

3.02 Approved Backflow Prevention Assembly - A device deterring the reversal of flow of water or mixtures of water and other liquids, gasses, and/or other substances into the distribution pipes of the District's potable supply of water through any Cross-Connection. Said device must have been investigated and approved for use as either an Air-gap separation, Double Check Valve Assembly, or Reduced Pressure Principle Backflow Prevention Device by the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California, or by any other laboratory having equivalent capabilities for both the laboratory evaluation and field evaluation thereof.

3.03 Board - The Board of Directors of the East Valley Water District.

3.04 Commercial - Any service not covered by the residential description. This shall include, but not be limited to, schools, dry cleaners, laundries, and businesses.

3.05 Connection - The pipeline and appurtenant facilities such as the curb stop, meter and meter box, all used to extend water service from the main to the premises, the laying thereof and the tapping of the main. Where services are divided at the curb or property line to serve several customers, each such branch service shall be deemed a separate service.

3.06 Cost - The cost of labor, materials, transportation, supervision, engineering, and all other necessary overhead expenses.

3.07 County - The County of San Bernardino, California.

3.08 Cross-Connection - An unprotected actual or potential connection between a potable water system used to supply water for drinking purposes and any source or system containing unapproved water or a substance that is not or cannot be approved a safe, wholesome and potable. By-pass arrangements, jumper connections, removable sections, swivel or changeover

devices, or other devices through which backflow could occur, shall be considered to be cross-connections.

3.09 Customer - Any person (as defined) supplied with, or entitled to be supplied with water service by the District.

3.10 Customer's Service Valve - A valve independent of the District's facilities located in the customer's piping as close to the meter as practicable, the operation of which will control the entire water supply from the meter.

3.11 District - Shall mean the East Valley Water District, San Bernardino County, California.

3.12 Director of Engineering and Operations - Shall be a Registered Civil Engineer of the State of California.

3.13 Engineering Services - The Engineering services provided by the District shall include technical and procedural guidance, professional consultant services, project coordination, and plan checking.

3.14 Financial Officer - Shall be the Treasurer appointed by the Board of Directors.

3.15 Fire Hydrant - Short-Side: The case where the water main and the hydrant are on the same side of the street's centerline. **Long-Side**: The case where the water main and the hydrant are on the opposite sides of the street's centerline.

3.16 General Manager - Shall mean the General Manager/Chief Executive Officer of the District.

3.17 Governing Body - Shall mean the Board of Directors of the East Valley Water District.

3.18 Inspector - Shall mean the person who shall perform the work of inspecting water facilities under the jurisdiction or control of the District.

3.19 Main - A water line in a street, highway, alley or easement used for public and private fire protection and for the general distribution of water.

3.20 Owner - The person owning in fee title, or in whose name the legal title to the property appears, by deed duly recorded in the County Recorder's office, or the person in possession of the property or buildings under claim of, or exercising acts of ownership over the same for himself or, as executor, administrator, guardian, or trustee of the owner.

3.21 Permit - Any written authorization required pursuant to this or any other regulation of the District.

3.22 Person - Any human being, individual, firm, company, partnership, association and private, public or municipal corporation, the United States of America, the State of California, a district and any political subdivision, or governmental agency.

3.23 Premises - A lot or parcel of real property under one ownership, except where there are well defined boundaries or partitions such as fences, hedges or other restrictions preventing the common use of the property by several tenants, in which case each portion shall be deemed separate premises. Apartment houses and office buildings may be classified as single premises.

3.24 Private Fire Protection Service - Water service and facilities for building sprinkler systems, hydrants, hose reels and other facilities installed on private property for fire protection and the water available therefor.

3.25 Public Fire Protection Service - The service and facilities of the entire water supply, storage, and distribution system of the District, including the fire hydrants affixed thereto, and the water available for fire protection, excepting house service connections and appurtenances thereto.

3.26 Regular Water Service - Water service and facilities rendered for normal domestic, commercial, and industrial purposes on a permanent basis, and the water available therefor.

3.27 Residential - Any service with a building that serves as a single-family home, duplex or triplex, apartments, co-operatives, or townhouses.

3.28 Secretary - The Secretary to the Governing Body.

3.29 Temporary Water Service - Water service and facilities rendered for construction work and other uses of limited duration, and the water available therefor.

3.30 Waste - Any unreasonable method or non-beneficial use of water, including, but not limited to, the specific uses prohibited and restricted by this Ordinance as hereinafter set forth.

3.31 Water Department - The Board of Directors of the District performing functions related to the District's water service, together with the General Manager, the Director of Engineering and Operations, the Financial Officer and any other duly authorized representative.

3.32 Water Supply Shortage - Any water shortage caused by drought or any other threatened or existing water shortage, disaster or facility failure, earthquake, loss of electrical power, pipeline breakage, or other condition which results in or threatens to result in the District's inability to meet the water demands of its customers.

3.33 Water User - Any person, firm, partnership, association, corporation or political entity using water obtained from the water system of the District.

3.34 Water - That water supplied by the East Valley Water District.

SECTION 4. WATER DEPARTMENT

4.01 Creation - A Water Department is hereby created comprised of the Directors, the General Manager, the Financial Officer, and Director of Engineering and Operations and such other employees and assistants as may be hired therefor.

4.02 General Manager - The General Manager, as provided for in the Water Code Section 30580, shall have full charge and control of the maintenance, operation and construction of the water works and water distribution system of the District.

4.03 Director of Engineering and Operations - The position of Director of Engineering and Operations is hereby created. The Director of Engineering and Operations shall regularly inspect all physical facilities related to the District water system, to see that they are in good repair and proper working order, and to note and report violations of any ordinances or water regulations.

4.04 Violation, Repairs - The Director of Engineering and Operations shall promptly report any violation or disrepair to the General Manager. If the work required is in the nature of an emergency, he/she shall take whatever steps necessary to maintain service to the consumers pending action by the General Manager.

4.05 Supervision - The Director of Engineering and Operations shall supervise all repair or construction work authorized by the Board or General Manager and perform any other duties prescribed by the Board or General Manager.

4.06 Performance of Duties - The foregoing duties of the Director of Engineering and Operations may be performed by the General Manager or by an additional employee or employees as designated by the Director of Engineering and Operations and/or General Manager.

4.07 The Financial Officer - The Financial Officer shall install and maintain a system of auditing and accounting that shall completely and at all times show the financial condition of the District. Furthermore the Financial Officer shall compute, prepare, and mail bills as hereinafter prescribed, make and deposit collections, maintain proper books of account, collect, account for, refund deposits, and do whatever else is necessary or directed by the General Manager to set up and maintain an efficient and economical accounting system and perform any other duties now and hereafter prescribed by the Board of Directors.

SECTION 5. GENERAL RULES

5.01 Standards - The Governing Body may, from time to time, adopt standard requirements for the design, construction, repair and maintenance, or connection to the District's water system.

5.02 Violation Unlawful - Following the effective date of this Ordinance, it shall be unlawful for any person to connect to, construct, install, provide, maintain or use any other means of water facilities from any building in the area serviced with water by said District except by connection to water facilities in the manner as provided for in this Ordinance. Any violation of this Ordinance will be subject to the provisions of this Section at the discretion of the General Manager, Financial Officer, or Director of Engineering and Operations.

5.03 Notice - Wherever, and whenever, practicable under the particular circumstances of the situation, and pursuant to the discretion of the General Manager, Financial Officer, or Director of Engineering and Operations, any person found to be violating any provisions of this or any other ordinance, resolution, rule or regulation of the District shall be served by the Inspector or other authorized person with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. Said time limit shall be not less than two, nor more than seven working days. The offender shall, within the period of time stated in such notice, permanently cease all violations. All persons shall be held strictly responsible for any and all acts of agents or employees done under the provisions of this Ordinance or any other rule or regulation of the District.

5.04 Protection from Damage - No person shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any structure, appurtenances, or equipment which is a part of the District's water works. Any person violating this provision shall be subject to the penalties provided by law.

5.05 Investigation Powers - The officers, inspectors, managers, and any duly authorized employees or agents of the District shall carry evidence establishing their position as an authorized representative of the District and, upon exhibiting the proper credentials and identification, shall be permitted to enter in and upon any and all buildings, industrial facilities and properties to which the District is furnishing water, or has been requested to furnish water for the purpose of inspection, re-inspection, observation, measurement, sampling, testing or otherwise performing such duties as may be necessary in the enforcement of the provisions of the ordinances, resolutions, rules and regulations of the District pursuant to the authorization contained in the required application for water service.

5.06 Non-Compliance with Regulations - As an alternative method of enforcing the provisions of this or any ordinance, resolution, rule or regulation of the District, the District shall have the power to disconnect the user or subdivision water service from the water mains of the District.

5.07 Liability for Violation - Any person violating any of the provisions of the ordinances, rules or regulations of the District shall become liable to the District for any expense, loss or damage, occasioned by the District by reason of such violation.

5.08 Relief on Application - When any person, by reason of special circumstances, is of the opinion that any provision of the ordinances, rules or regulations of the District is unjust or inequitable as applied to his/her premises, that person may make written application to the Governing Body stating the special circumstances, citing the provision complained of and requesting suspension or modification of that provision as applied to his/her premises. If such application is approved, the Governing Body may, by resolution, suspend or modify the provision complained of, as applied to such person or premises, to be effective as of the date of the application and continuing during the period of the special circumstances.

5.09 Relief on Own Motion - The Governing Body may, on its own motion, find that by reason of special circumstances, any provisions of its ordinances, rules or regulations should be suspended or modified as applied to a particular person or premises and may, by resolution, order such suspension or modification for such premise or person during the period of such special circumstances or any part thereof.

5.10 Maintenance of Water Pressure and Pressure Conditions - The Board shall not accept any responsibility for the maintenance of pressure and it reserves the right to discontinue service while making emergency repairs, or other work required on the water system as determined by the General Manager and/or the Director of Engineering and Operations. Consumers dependent upon a continuous supply of water should provide emergency storage. All applicants for service connections or water service shall be required to accept such conditions of pressure and service as are provided by the distribution system at the location of the proposed service connection, and to hold the District harmless for any damages arising out of low pressure or high pressure conditions or interruptions of service.

5.11 Tampering with District Property - Except as otherwise specifically authorized by the General Manager, no one, except an employee or representative of the District shall at any

time, in any manner, operate the curb stops or valves, gates or valves of the District's system or interfere with meters or their connections, street mains or other parts of the water system.

5.12 Remedies for Violation - Failure of a customer to comply with any part of this Ordinance, or any other ordinance, resolution, rule, or regulation of the District, shall result in the District's discontinuance and/or refusal to provide water service to said customer's premises and in the exercise by the District in its lawful discretion of any and all other rights and remedies that are available to the District under the law.

5.13 Water System - The District will furnish a system, plant, works and undertakings used for and useful in obtaining, conserving and disposing of water for public and private uses, including all parts of the Enterprise, all appurtenances to it, lands, easements, rights in land, water rights, contract rights, franchises, and other water supply, storage and distribution facilities and equipment.

5.14 Number of Services per Premises - The applicant may apply for as many services as may be reasonably required for their premises provided that the pipeline system for each service be independent of the others and that they not be interconnected.

5.15 Water Waste - No customer shall knowingly permit leaks or waste of water. Where water is wastefully or negligently used on a customer's premises, seriously affecting the general service, the District may discontinue the service if such conditions are not corrected after giving notice of violation as provided in Section 5.03 herein.

5.16 Responsibility for Equipment on Customer Premises - All facilities installed by the District on private property for the purpose of rendering water service shall remain the property of the District and may be maintained, repaired, or replaced by the Water Department without consent or interference of the owner or occupant of the property. The property owner shall use reasonable care in the protection of the facilities.

5.17 Damage to Water Facilities - The customer shall be liable for any damage to the service facilities when such damage is from causes originating on the premises by an act of the customer or his tenants, agents, employees, contractors, licensees, or permittees, including the

breaking or destruction of locks by the customer or others on, or near, a meter, and any damage to a meter that may result from hot water or steam from a boiler, or heater, on the customer's premises. The District shall be promptly reimbursed for any such damage upon presentation of a bill to the customer.

5.18 Ground Wire Attachments - All individuals or business organizations are forbidden to attach any ground wire, or wires, to any plumbing which is, or may be, connected to a service connection or main belonging to the District. The District will hold the customer liable for any damage to its property occasioned by such ground wire attachments.

5.19 Control Valve on Customer Property - The customer shall provide a valve on his/her side of the service installation as close to the meter location as practicable to control the flow of water to the piping on his/her premises. The customer shall not use the service curb stop to turn water on and off for his/her convenience.

5.20 Unsafe Apparatus - Water service may be refused or discontinued to any premises where apparatus or appliances are in use which might endanger or disturb the service to other customers.

5.21 Cross-Connections - Water service may be refused or discontinued to any premises where there exists a cross-connection as defined in Section 9 of this Ordinance.

5.22 Fraud or Abuse - Service may be discontinued, if necessary, to protect the District against fraud or abuse.

5.23 Interruption in Service - The District shall not be liable for damage which may result from an interruption in service from a cause beyond the control of the Water Department.

5.24 Ingress and Egress - All duly authorized employees, agents, and representatives of the District shall have the right of ingress and egress to the customer's premises at reasonable hours for any purpose reasonably connected with the furnishing of water service.

5.25 Installation of Services - Only duly authorized employees, agents, and representatives of the District shall install service connections to the District's water system. All service connections shall comply with the specifications of the District. Meters will be installed in

the public right of way, or within an acceptable easement, and shall be owned by the District. No rent or other charge will be paid by the District for a meter or other facilities, including connections. All meters will be sealed by the District at the time of installation and no seal shall be altered or broken except by one of the District's authorized employees or agents.

5.26 Change in Location of Meters - Meters moved for the convenience of the customer will be relocated at the customer's expense. Meters moved to protect the District's property will be moved at District expense.

5.27 Size and Location - The District reserves the right to determine the size of service connections and their location with respect to the boundaries of the premises to be served. Service installations will be made only to property abutting on distribution mains as have been constructed in public streets, alleys or easements or to extensions thereof as herein provided. Services installed in new subdivisions prior to the construction of streets, in advance of street improvements, must be accepted by the applicant in the installed location.

5.28 Curb Stop - Each service connection installed by the District shall be equipped with a curb stop, or wheel valve, on the inlet side of the meter. Such valve, or curb stop, is intended for the exclusive use of the District in controlling the water supply through the service connection pipe. If the curb stop, or wheel valve, is damaged by the customer's use to an extent requiring replacement, such replacement shall be at the customer's expense.

5.29 Access to Meters - The District reserves the right to enter upon the applicant's premises for the purpose of reading, repairing, or replacing the water service meter. The applicant shall be solely responsible for the control of all animals which may pose a potential threat to District employees and shall be liable for any injury to District employees resulting from unrestrained animals. Should an applicant for new service fail to properly restrain animals present on his property, the District may, upon written notice, refuse to install or turn on service until such time as the District determines that a threat to its employees no longer exists. When there is an ostensive risk to employees at an established service due to the presence of unrestrained animal(s) or other hazard(s), the employee will not be required to read the meter, etc. The customer will be

notified of the situation and the bill will be estimated based upon an average of the most recently recorded six (6) month's consumption until a personal risk by the District's employee is no longer an issue. Upon verification that the premises no longer appear to be a threat to the safety of the employee, the meter will be read in the presence of the customer, or someone of his/her choosing, and the billing will be adjusted accordingly.

SECTION 6. APPLICATION FOR WATER SERVICE

6.01 Application for Water Service - A property owner or his/her agent, designated in writing, shall make application for regular water service by personally signing a Service Agreement provided by the District and paying the required fees. The property owner will remain the primary account holder, or Customer of Record, with respect to District services for as long as they own the property.

6.02 Water Service to Customers other than Property Owners - Water Service to other than property owners shall be made as follows:

6.02.01 Additional Customer of Record - If the Property owner rents the premises to a tenant, the tenant may have water and other services instituted in their name by completing an Owner Authorized Billing Agreement. The tenant and owner must both sign the agreement and the District must be provided with a copy of an active rental agreement. In any event, the tenant must provide the District with the property owner's name, mailing address, and telephone number.

6.02.02 Owner Responsibility - Whether or not a property owner signs the District's Owner Authorized Billing Agreement form, the property owner is not relieved of his or her responsibility for unpaid water charges for the subject property as provided in this ordinance and pursuant to California Water Code Section 31701.5, et.seq.

6.03 Payment of Delinquent Charges - As a precondition to receiving water service from the District, the applicant for service shall pay any and all unpaid charges that have accrued on any closed accounts previously held by the applicant with the District as well as pay any and

all delinquent charges that have accrued on any open accounts currently held by the applicant with the District.

6.04 Security Deposit - A security deposit for each residential, commercial or retail unit shall be deposited at the time application for service is made. The District may, at its sole election, include the required security deposit on the customer's first billing invoice.

6.04.01 Single-Family Residential Exception - The security deposit for a single-family residential unit may not be required if the person requesting service is a new residential applicant who is determined by the District to be creditworthy. The determination of an applicant's creditworthiness shall be based solely upon criteria developed by the District and may be appealed in the manner set forth in Section 11 herein. However, during the life of the account, the District may, in its sole discretion, require any customer, regardless of whether he or she was previously found to be creditworthy, to post a full security deposit with the District any time there are three (3) delinquencies within any consecutive six (6) month period, or as a precondition to reinstatement of service anytime after being disconnected for non-payment.

6.04.02 Security Deposit Refund - Refunds of security deposits will be performed in the manner set forth below. Such refunds will be credited to any account held by the customer with the District in lieu of a refund check. Interest on the security deposits shall remain the sole property of the District and will not be included in any refund.

6.04.02.01 Residential - The District shall refund each security deposit to a residential customer as follows:

a. Where single-family residential funds have been on deposit for one year in a customer's account, and there have been no delinquency payments on any of the customer's accounts with the District during that year, the customer may request a refund of the full deposit. However, the District may, at its sole option, require any customer to post a full security deposit with the District any time there are three (3) delinquencies within any consecutive six (6) month period, or as a precondition to reinstatement of service anytime after being locked off for non-payment.

b. Where multi-family residential customer deposits have been on deposit for one year in a customer's account and there has been no delinquency payment on any of the customer's accounts with the District during that year and upon the customer's request, one-half of the deposit will be refunded to the customer by means of a credit on the account. However, if the customer is delinquent on any payment thereafter, the District may, at its sole option, charge back the credited amount.

c. Within thirty (30) days after the applicant provides written notice to terminate water services, or when a new property owner tenders a full deposit for the same property, in which case the refunded deposit shall first be applied toward the unpaid balances in any account held by the customer with the District before the remaining sum, if any, is refunded to the customer.

6.04.02.02 Non-Residential - The District shall refund the security deposit for commercial, retail, industrial, fire service and irrigation connections as follows:

a. Where funds have been on deposit for one year in a customer's account and there has been no delinquency payment on any of the customer's accounts with the District during that year and upon the customer's request, one-half of the deposit will be refunded to the customer by means of a credit on the account. However, if the customer is delinquent on any payment thereafter, the District may, at its sole option, charge back the credited amount.

b. Within thirty (30) days after the applicant provides written notice to terminate water services, or when a new property owner tenders a full deposit for the same property, in which case the refunded deposit shall first be applied toward the unpaid balances in any account held by the customer with the District before the remaining sum is refunded to the customer.

6.05 Change in Customer's Equipment - Customers who make any material change in the size, character of, extent of the equipment or operations utilizing water service, or whose change in operations results in a significant increase in the use of water shall immediately give the District written notice of the nature of the change and, if necessary, amend their application.

6.06 Domestic, Commercial and Industrial Service Connections - It shall be unlawful to maintain a connection excepting in conformity with the following:

6.06.01 Multiple Building - Multiple houses or buildings under one ownership and on the same lot or parcel of land may be supplied through the same service connection, provided that the service connection shall be of such size to adequately serve said houses or buildings.

6.06.02 Single-Service Connection - Not more than one service connection for domestic or commercial supply shall be installed for one building, except when authorized by the District.

6.06.03 Separate Service Connection - A service connection shall not be used to supply any adjoining property, or property across a street, alley, or easement. Each service connection shall serve only one property or individual parcel.

6.06.04 Divided Property - When property provided with a service connection is divided, the service connection shall be considered as belonging to the lot or parcel of land which it directly enters.

6.07 Service Connection Maintenance - The service connection extending from the water main to the meter, meter box, curb stop, wheel valve, or coupling shall be maintained by the District. All pipes and fixtures extending or laying beyond the meter coupling shall be installed and maintained by the owner of the property.

6.08 Damage through Leaking Pipes and Fixtures - When requested to turn on the water supply to a house or property, the District will make a reasonable attempt to ascertain if water is running on the inside of the building. If such is found to be the case, the water will be left shut off at the curb stop or the private shutoff. The District's jurisdiction and responsibility ends at the customer's connection to the meter. The Board will in no case be liable for damages occasioned by water running from open or faulty fixtures, or from broken or damaged pipes beyond the meter.

6.09 Damage to Meters - The District reserves the right to set and maintain a meter on any service connection. The water customer shall be held liable for any damage to the meter due to customer's negligence or carelessness.

6.10 Main Extension Required - The District may provide for all main extensions upon application for service and payment of required charges. Customer may elect to extend mains according to agreements between the customer and the District providing the work meets District standards.

6.10.01 Application - Any owner of one or more lots, parcels, or a sub-divider of a tract of land desiring the extension of one or more water mains to serve such property, shall make written application therefor to the District. Said application shall contain the legal description of the property to be served, tract number, and any additional information which may be required by the District and shall be accompanied by a map showing the location of the proposed connections.

6.10.02 Investigation - Upon receipt of the application requesting the District to install facilities, the District shall make an investigation and survey of the proposed extension and estimate the cost thereof.

6.10.03 Dead-End Lines - No dead-end lines shall be permitted, except at the discretion of the General Manager, and in cases where circulation lines are necessary, they shall be designed and installed by the District as part of the main extension.

6.10.04 Specifications and Construction - The size, type and quality of materials and location of the lines shall be specified and approved by the District.

6.10.05 Property of the District - Upon completion of such installation as approved by the District, the facilities shall be dedicated to and become property of the District.

6.10.06 Connections - The applicant shall, at his cost, provide all connections to buildings and private water systems, as herein provided.

SECTION 7. TEMPORARY SERVICE

7.01 Duration of Service - Temporary service connections shall be disconnected and terminated within six months after installation unless an extension of time is granted in writing by the General Manager, Financial Officer, or Director of Engineering and Operations.

7.02 Security Deposit - The applicant shall deposit, in advance, the estimated cost of the temporary service. Upon discontinuance of service, the actual cost shall be determined, and an adjustment made as an additional charge, refund or credit.

7.03 Installation and Operation - All facilities for the temporary service to the customer shall be made and operated in accordance with District instructions. The District may, at its discretion, restrict or terminate the service at any time.

7.04 Responsibility for Meters and Installations - The customer shall use all possible care to prevent damage to the meter, or to any other loaned facilities of the District, which are involved in furnishing the temporary service from the time they are installed until they are removed. If the meter or other facilities are damaged, the cost of making repairs shall be paid by the customer. The customer shall give notice to the District in writing at least forty eight (48) hours prior to the time the customer or other person is through with the meter, or meters, and the installation.

7.05 Supply from Fire Hydrant - An applicant for temporary use of water from a fire hydrant must apply for a temporary water service and pay a hydrant meter deposit. The applicant shall also pay for water used in accordance with the meter readings, at the rates prescribed by the Board.

7.06 Unauthorized Use of Hydrants - Tampering with any fire hydrant for the unauthorized use of water therefrom or for any other purpose is subject to a fine, per occurrence, as may be set by the Board.

7.07 Meter Availability - As prescribed by the District, the applicant shall make the hydrant meter available for reading on a monthly basis for actual water usage. If the hydrant meter is not available for the monthly reading as prescribed by the District, a supplementary fee of \$100

will be charged for each month the meter is not read to cover the expense required for corrections to billing records.

7.08 Pools and Tanks - When an abnormally large quantity of water is desired for filling a swimming pool or for other purposes, arrangements must be made with the District prior to taking such water. Permission to take water in unusual quantities will be given only if it can be safely delivered through the District's facilities and if other consumers are not inconvenienced thereby.

7.09 Responsibility for Equipment - The customer shall, at his own risk and expense, furnish, install and keep in good and safe condition all equipment that may be required for receiving, controlling, applying and utilizing water, and the District shall not be responsible for any loss or damage caused by the improper installation of such equipment, or the negligence or wrongful act of the customer or any of his tenants, agents, employees, contractors, licensees or permittees in installing, maintaining, operating or interfering with such equipment. The District shall not be responsible for damage to property caused by faucets, valves and other equipment which are open when water is turned on at the meter, either originally or after a temporary shutdown.

SECTION 8. FIRE PROTECTION

8.01 Public Fire Protection - The following pertains to the use of District facilities for public fire protection:

8.01.01 Use of Fire Hydrants - Fire Hydrants are for use by the District or by organized fire protection agencies pursuant to contract with the District. Other parties desiring to use fire hydrants for any purpose must obtain prior written permission from the Water Department and shall operate the hydrant in accordance with instructions issued by the Water Department. Unauthorized use of hydrants will be prosecuted according to law.

8.01.02 Moving of Fire Hydrants - When a fire hydrant has been installed in the location specified by the proper authority, the District has fulfilled its obligation. If a property owner or other party desires a change in the size, type, or location of the hydrant, they shall bear

all costs of such changes without refund. Any change in the location of a fire hydrant must be approved by the proper authority.

8.02 Private Fire Protection Service - The following pertains to the use of District facilities for private fire protection systems:

8.02.01 Payment of Cost - The applicant for private fire protection service shall pay the total actual cost of installation of the service from the distribution main to the service location including the cost of a detector check meter or other suitable and equivalent device, valve and meter box, said installation will become the property of the District.

8.02.02 No Connection to Other Systems - Unless authorized and under special circumstances, there shall be no connection between the fire protection system and any other water distribution system on the premises.

8.02.03 Use - There shall be no water used through the fire protection service except to extinguish fires and for testing the fire fighting equipment.

8.02.04 Charges for Water Used - Any consumption recorded on the meter will be charged as provided in District Resolutions, except that no charge will be made for water used to extinguish fires reported to the fire department.

8.02.05 Monthly Rates - The monthly rates for private fire protection shall be established by Resolution of the Board of Directors.

8.02.06 Water for Fire Storage Tanks - Occasionally water may be obtained from a private fire service for filling a tank connected with the fire service, but only if written permission is secured in advance from the District and an approved means of measurement is available.

8.02.07 Violation of Agreement - If water is used from a private fire service in violation of the agreement or this Ordinance, the District may, at its option, discontinue and remove the service.

8.02.08 Valve - When a fire service connection is installed, the valve governing same will be closed and sealed and remain so until a written order is received from the owner of the premises to have the water turned on.

8.02.09 Meter - If the District does not require a meter, and if water is used through a fire service connection for any other purpose than extinguishing fires, the District shall have the right to place a meter on the fire service connection at the owner's expense and assess the appropriate capacity fees, or shut-off the entire water supply from such premises.

8.02.10 Additional Service - The District shall have the right to take a domestic, commercial, or industrial service connection from the fire service connection at the curb to supply the same premises as those to which the fire service connection belongs. The Board shall also have the right to determine the proportion of the installation costs properly chargeable to each service connection, if such segregation of costs shall become necessary.

8.02.11 Check Valve - The Board reserves the right to install on all fire service connections a check valve of a type approved by the National Board of Fire Underwriters and to equip the same with a by-pass meter at the expense of the owner of the property.

SECTION 9. CROSS-CONNECTION CONTROL

9.01 Purpose - The purpose and intent of this Section:

a. To comply with the requirements imposed upon the District pursuant to Sections 7583-7605 of the California Code of Regulations ("Title 17") and all other applicable regulations regarding Cross-Connection Control.

b. To protect the public potable water supply of this District from the possibility of contamination or pollution by isolating within the customer's internal distribution system(s), or the customer's private water system(s), such contaminants or pollutants which could backflow into the District's public water system(s); and

c. To promote the elimination or control of existing cross-connections, actual or potential, between the customer's potable water system(s) and non-potable water system(s), plumbing fixtures and industrial systems; and

d. To provide for the maintenance of a continuing Cross-Connection Control Program which will systematically and effectively minimize the potential for contamination or pollution of the potable water system.

9.02 Application - The provisions of Title 17 and all other regulations regarding Cross-Connections that are adopted by the State of California Department of Health Services pursuant to California Water Code Sections 100205, 100275, and 116375(c), all as the same may be amended from time to time, are hereby adopted by the District, incorporated herein by this reference, and made a part hereof as though set forth in full.

9.03 Definitions - In addition to the definitions in Title 17, the following terms are defined for the purpose of this chapter:

9.03.01 Approved Water Supply - The term "Approved Water Supply" shall mean a water supply whose potability is regulated by the Department of Health Services.

9.03.02 Auxiliary Water Supply - Any water supply, other than the District's, which is either on or available to the property will be considered as an auxiliary water supply. These auxiliary waters may include water from another public potable water supply or from any natural source(s) such as a well, river, stream or used water. These waters may be contaminated, polluted or constitute an unacceptable water source over which the District does not have sanitary control.

9.03.03 Backflow - The term "backflow" shall mean the undesirable reversal of flow of water or mixtures of water and other liquids, gasses, or substances into the distribution pipes of the District's potable supply of water from any source or sources.

9.03.04 Backpressure - The term "backpressure" shall mean any elevation of pressure in the downstream piping system above the supply pressure at the point of consideration which would cause, or tend to cause, a reversal of the normal direction of flow.

9.03.05 Backsiphonage - The term "backsiphonage" shall mean a form of backflow due to a reduction in system pressure which causes a sub-atmospheric pressure to exist at a point in the water system.

9.03.06 Backflow Preventer - An assembly or means designed to prevent a reverse flow condition created by a difference in water pressures.

9.03.07 Backflow Prevention Devices - The actual types of devices that may be required and are acceptable for use in the District are as follows:

a. **Air Gap** - The term “Air Gap” shall mean a physical separation. between the free flowing discharge end of a potable water supply pipeline and an open or non-pressure receiving vessel.

b. **Reduced Pressure Principle Backflow Prevention (RPP) Assembly** - The term “RPP Assembly” shall mean an assembly containing two independently acting approved check valves together with a hydraulically operating, mechanically independent, pressure differential relief valve located between the check valves. The unit shall include properly located resilient seated test cocks and tightly closing resilient seated shutoff valves at each end of the assembly.

c. **Double Check Valve Backflow Prevention (DC) Assembly** - The term “DC Assembly” shall mean an assembly composed of two independently acting approved check valves including tightly closing resilient seated shutoff valves attached at each end of the assembly and fitted with properly located resilient seated test cocks.

9.03.08 Contamination - The term “contamination” shall mean an Impairment of the quality of the water which creates an actual hazard to the public health through poisoning or through the spread of disease by bacteria, virus, sewage, industrial fluids, or other toxic substances.

9.03.09 Controlled Cross-Connections - A connection between a potable and non-potable water system with an approved backflow prevention assembly properly installed and maintained so that it will continuously afford the proper protection.

9.03.10 Cross-Connection Control by Containment - The term “cross-connection control by containment (service protection)” shall mean the appropriate type or method of backflow protection at the service connection.

9.03.11 Degree of Hazard - The term “degree of hazard” shall mean either a contamination (health), plumbing, pollutional (non-health) or system hazard. Listed in order of severity, each is defined as follows:

a. Health Hazard - The term “health hazard” shall mean an actual or potential threat of contamination of a physical or toxic nature to the District’s water system or the consumer’s potable water system that would be a danger to health.

b. Plumbing Hazard - The term “plumbing hazard” shall mean an internal or plumbing type cross-connection in a consumer’s potable water system that may be either a pollutional or contamination type hazard. This includes, but is not limited to, cross-connections to toilets, sinks, lavatories, wash basins, swimming pool plumbing systems, and lawn sprinkler systems. If permitted to exist, “plumbing hazard” must be properly protected by an appropriate type of backflow prevention assembly.

c. Pollutional Hazard - The term “pollutional hazard” shall mean the actual, or potential, threat to the physical properties of the water system or the potability of the system but which would not constitute a health or system hazard, as defined. The potable water system would be degraded, depending on the degree or intensity of pollution, to the point where it becomes a nuisance, aesthetically objectionable, or cause minor damage to the system or its appurtenances.

d. System Hazard - The term “system hazard” shall mean an actual, or potential, threat of severe danger to the physical properties of the District’s or consumer’s potable water system which could have a delayed effect on the quality of the potable water in the system.

9.03.12 Industrial Fluids - The term “industrial fluids” shall mean any fluid or solution which may be chemically, biologically, or otherwise contaminated or polluted in a form or concentration which would constitute a health, system, pollutional, or plumbing hazard if introduced into an approved water supply system.

9.03.13 Pollution - The term “pollution” shall mean an impairment of the quality of the water to a degree which does not create a hazard to the public’s health, but which does adversely affect the aesthetic qualities of such waters for domestic work.

9.03.14 Potential - The term “potential” shall mean something perceived that can develop into or become actual.

9.03.15 Service Connection - The term “service connection” shall mean the downstream end of the water meter. This is the point of delivery to the customer’s water system where the District loses jurisdiction and sanitary control of the water.

9.03.16 Potable Water - The term “potable water” shall mean any public/private water supply that has been investigated and approved for human consumption.

9.03.17 Non-Potable Water - The term “non-potable water” shall mean a water supply that has not been approved for human consumption.

9.03.18 Used Water - The term “used water” shall mean any water supplied by the District from a public potable water system to a customer’s water system after it has passed through the service connection and is no longer under the control of the District.

9.04 Determination - The District shall conduct surveys to identify Water User Premises where Cross-Connections are likely to occur and evaluate the degree to potential health hazard to the Water which may be created as a result of conditions existing on a Water User’s Premises. At a minimum, the evaluation shall consider the factors identified in Section 7585 of the California Code of Regulations. However, notwithstanding anything herein to the contrary, the District shall not be legally responsible for the abatement of any Cross-Connection which may be found to exist within a Water User’s Premises.

9.05 Notice - Upon determination by the District that a Cross-Connection exists within the scope of this Section, the District shall give written notice to the affected Customer to install an Approved Backflow Prevention Assembly of a type and quality, and at a specific location, deemed appropriate by the District. The Customer shall immediately cause such device to be installed at his or her expense, and in the manner prescribed by the District, within thirty (30) days of the issuance of said notice.

9.06 Installation - The location of any Approved Backflow Prevention Assembly installed pursuant to this Section shall be at the Customer’s point of connection to the District’s

Water, or within the Customer's Premises, or both, as determined by the District in the exercise of its discretion. If an approved Backflow Prevention Assembly is required on the Customer's connection to the District's Water, it shall be located at or near the property line of the Premises or immediately outside the building being served, but, in all cases, at a place deemed acceptable to the District that is before the first branch line leading off the service line.

9.06.01 Typical Installations - Conditions where an approved backflow prevention assembly is required on each service connection shall include, but not be limited to, the following:

a. In the case of any property having an auxiliary water supply, or one that is being fed by another outside water source, the public water system shall be protected against backflow from the premises by installing an approved Air Gap or RPP device.

b. In the case of any property on which toxic chemicals, pollutants, industrial fluids, or any other objectionable substances are handled, or stored, in such a fashion as to create an actual or potential hazard to the District's system, the public water system shall be protected against backflow from the premises by installing an approved Air Gap or RPP device.

c. In the case of any property having internal cross-connections that cannot be permanently corrected or protected against, or intricate plumbing and piping arrangements or where entry to all portions of the premises is not readily accessible for inspection purposes, making it impracticable or impossible to ascertain whether or not dangerous cross-connections exist. The public water system shall be protected against backflow from the property by installing an approved RPP device.

d. In the case of any property being served by two or more waterservices, water and fire services, water and irrigation services, or any combination thereof, the public water system shall be protected against backflow from the premises by installing an approved RPP device on each service connection.

e. In the case of any property having solar heating systems of a heat ex-changer type that utilize a recirculating pump, air conditioning units with chemical injection pots, or coolers

with recirculating pumps, the public water system shall be protected against backflow from the premises by installing an approved RPP device.

f. In the case of any agricultural property, dairy, poultry farm, or any other farm, or hobby-type operation, where fecal bacteria has the potential to contaminate the water supply, or operations injecting chemicals into the on-site water lines, the public water system shall be protected against backflow from the property by installing, at a minimum, an approved RPP device.

g. In the case of any property on which there is water or a substance that would be objectionable but not hazardous to health if introduced into the public water system, the public water system shall be protected against backflow from the premises by installing an approved double check valve.

h. In the case of any single-family or multi-family residential property where known health hazards exist, the public water system shall be protected against backflow from the premises by installing an approved RPP device.

9.06.02 Typical Facilities - Typical facilities where the District requires the installation of approved backflow prevention assemblies:

Apartments - 8 or more units	- RPP
Bottling Plants	- RPP
Buildings - Commercial, Industrial	- RPP
Buildings - Hotels, Motels	- RPP
Buildings - Multi-Storied (three or more floor levels)	- RPP
Car Wash Facilities	- RPP
Cleaners	- RPP
Commercial Buildings	- RPP
Cooling Towers	- RPP
Fire Systems (not interconnected, interconnected)	- RPP, DC
Hospitals - Medical Buildings, Mortuaries, Autopsy	

Facilities, Nursing and Convalescent Homes, and Clinics	- RPP
Irrigation Systems - Premises having separate systems:	
Parks, Playgrounds, Cemeteries, Golf Courses, Schools, Estates, and Ranches	- RPP
Laundries and Dye Works	- RPP
Mobile Home Parks	- RPP
Multiple Rental Buildings - that are master metered	- RPP
Plating Plants	- RPP
Sand and Gravel Plants	- RPP
Schools	- RPP
Sewage Lift Stations	- RPP
Sewage Treatment Plants	- AG, RPP
Sprinkling Systems (chemically entrained)	- RPP
Steam Facilities	- RPP
Public Swimming Pools, and Pools at Apartments, Condominiums, Home Owner Associations, City Parks, and Trailer Parks	- RPP

9.07 Inspection, Testing, and Maintenance - The Customer shall cause a field test to be performed by a licensed plumbing contractor certified to test and repair Approved Backflow Prevention Assemblies at the time of installation and at least once per year thereafter. In those instances deemed necessary by the District, testing of Approved Backflow Prevention Assemblies may be required at more frequent intervals. In the event that an Approved Backflow Prevention Assembly is found to be defective, the Customer shall cause the necessary repairs and/or replacement thereof to be made. The Customer shall have an acceptance test performed after such repair and/or replacement to ensure proper operation of the Approved Backflow Prevention Assembly. All costs associated with the inspection, testing, repair, and maintenance of Approved Backflow Prevention Assemblies shall be borne by the Customer. The results of each test and

records of all inspection, replacement, and repairs performed on an Approved Backflow Prevention Assembly by the Customer shall be maintained by the Customer and reported to the District in a manner deemed acceptable to the District.

9.08 Enforcement - The District may discontinue or refuse to supply water and/ or sewer service to any Premises that is not in strict compliance with the terms of this Section, or if it is found that an Approved Backflow Prevention Device has been removed or bypassed, or if unprotected Cross-Connections otherwise exist on the Premises. The District may also disconnect water and/or sewer service to any Premises if the health and safety of any Person is immediately threatened by a Cross- Connection. The District may refuse to restore such service to the Premises until the Cross-Connection is remedied and an Approved Backflow Prevention Device is installed and operated in accordance with this Section.

9.09 Administration - The District shall appoint at least one (1) person trained in Cross-Connection control to administer the provisions of this Section.

SECTION 10. CUSTOMER BILLING PROCEDURES

10.01 Establish Rates and Charges - The Board of Directors shall from time to time establish rates and charges for water and other service provided by the East Valley Water District by Resolution.

10.02 Charges - Water charges shall commence when a water service connection is installed and the meter is set. The customer requesting service and whose name is on the water service account will be responsible for all water charges incurred by such service. The District may transfer to the account, any delinquent and/or unpaid charges from other closed or open accounts which are held by the customer and/or property owner within the District.

10.03 Tiered Water Use - The District charges a commodity charge for potable water use in three separate pricing tiers. Tier 1 is an allocation for indoor water use. Tier 2 is an allocation for efficient outdoor use. Tiers 1 and 2 are considered a customer's water budget. Tier 3 represents water use greater than 100% of the customer's individualized water budget.

10.04 Water Budgets - A water budget is defined as the quantity of water required for an efficient level of water use by an individual customer site. The District's water budget calculation accounts for indoor, outdoor, and business process needs where applicable. Water budgets are determined by the individual needs of the customer using site-specific factors including, but not limited to, persons per household, irrigated area, weather (expressed as Evapotranspiration rate), plant factor, and days of service. Water budgets are calculated differently for residential, dedicated irrigation (landscape), and commercial mixed-use (indoor and outdoor) water service accounts. Water budgets are considered the combination of Tier 1 and/or Tier 2 water use in all customer classes subject to water budget rates. Customer classes are: Residential, Multi-Family, Irrigation, and Non-Residential.

10.05 Evapotranspiration (ET) Rate - Evapotranspiration is a measure of water transpired through plant tissue and evaporated from the soil in the planted area over a period of time. The unit of measure is expressed in inches of ET. ET measurements are obtained from weather station(s) situated in the District's service area; each station provides the data to be applied for specific zones within the District. The weather stations are calibrated on a monthly basis by a certified CIMIS (California Irrigation Management Information System) professional. Weather data is gathered on a daily basis and accumulated for each billing period.

10.06 Monthly Plant Factor - The monthly plant factor is used to more clearly define the needs of plant material. The District's monthly plant factor comes from the University of California - Riverside's research on the water needs of cool-season turf grass. The plant factors (shown in Row A of the table below), when averaged over the entire calendar year, match the annual ET Adjustment factors listed in the State of California Model Water Efficient Landscape Ordinance (AB 1881). Monthly Plant factors for special landscapes are shown in Row B of the table. Special landscapes are served by a dedicated irrigation meter and include: registered historical sites, cemeteries, parks, golf courses, sport complexes/ball fields, and school yards.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
A.	0.61	0.64	0.75	1.04	0.95	0.88	0.94	0.86	0.74	0.75	0.69	0.60	0.8
B.	0.76	0.80	0.93	1.30	1.20	1.10	1.20	1.10	0.92	0.93	0.86	0.75	1

10.07 Residential Indoor Water Budget - A residential indoor water budget is calculated by multiplying the number of persons per household by 55 gallons for every day by the number of dwelling units by the Drought Factor in a billing period. For example, if there are 4 persons in a single-unit residence, the daily water budget would be 220 gallons (4 persons x 1 unit x 1 Drought Factor x 55 gallons). If there are 28 days in a billing period the total indoor water budget would be 6,160 gallons (220 gallon/day x 28 days = 6,160 gallons) or 8.24 billing units (6,160 gallons ÷ 748 gallons per billing unit).

10.08 Residential Outdoor Water Budget - A residential daily outdoor water budget is calculated by multiplying the irrigated square footage associated with the water service account by the monthly Evapotranspiration rate adjusted by the monthly plant factor by the drought factor, multiplying by the conversion factor of 0.62 (square feet to gallons), and then dividing by 748 to arrive at the daily water budget in billing units. (Irrigable Square Footage x Monthly Evapotranspiration Rate x Monthly Plant Factor x Drought Factor x 0.62 ÷ 748 = Monthly Outdoor Budget in billing units).

10.09 Dedicated Landscape (Irrigation) Water Budget - Water budgets for dedicated irrigation accounts are calculated using the same methodology that is used for Residential Outdoor Water Budgets (described above). Dedicated Landscape accounts receive no Tier 1 allocation.

10.10 Non-Residential Mixed Use Water Budgets - Non-Residential mixed-use water budgets are based on historic use. The District calculates an average water demand for each billing period based on the water demand for the same billing periods of the prior two years. The commercial water budget may be adjusted, at the District's discretion, to accommodate changes in business processes or to allow for business growth.

10.11 Water Budget Drought Factor - Water budgets can be adjusted in times of threatened water supply availability in order to reduce water allocations for customers through the

use of the drought factor. When drought factors are implemented, indoor and/or outdoor water budgets can be reduced by a designated percentage, causing Tier 1 and/or Tier 2 allocations to be reduced, and Tier 3 “Inefficient Usage” charges to become effective at lower consumption levels. Drought factors can also be adjusted upward to reflect improved water supplies but not above 100%. Changes in drought factors will be established by Resolution of the District Board of Directors.

10.12 Water Budget Adjustments - Water budgets can also be adjusted to reflect a significant change in a customer’s unique efficient water needs. Adjustment forms are available for customers on the District’s website or at the District Headquarters. Rules pertaining to applicable water budget adjustments are outlined on the water budget adjustment form.

10.13 Liability for Water Service - The property owner shall be held liable for water service charges until such time as the District is notified in writing to transfer the account to another property owner.

10.14 Leak Credit - In cases where a pipe break or sprinkler malfunction leads to water use in excess of an individual water budget during one or more billing periods, the District will remove the inefficient use rate increment (difference between Tier 3 and Tier 2 rates) for up to a maximum of two concurrent billing periods ending in the billing period in which a verified repair or corrective measure was conducted. In addition, all of the following conditions must be satisfied for a Leak Credit to be issued:

- The customer’s water use was in excess of their water budget at the time of the repair;
- The customer has completed a leak credit form with the required documentation showing a repair was performed;
- The customer has returned to in-budget water use in the billing period immediately following the billing period during which the repair was completed; and
- The customer has not applied for a leak credit within the last 12 consecutive billing periods.

The District will remove the Tier 3 incremental charge by recalculating the impacted water bill(s) for all of the customer's water use, including water use as a result of the leak or malfunction, at the applicable Tier 2 pricing. A leak credit form may be obtained on the District website, or by visiting the District Administrative Offices.

10.15 Liens for Unpaid Bills - All unpaid bills will be made a lien against the property pursuant to these rules, regulations and California Water Code Section 31701.5 et.seq. Interest at the legal rate may accrue and be applied on all delinquent bills. The property owner remains responsible for all charges owed to the District whether or not the property owner actually lives on the premises or signs the application for water service.

10.16 Owner Liability - The property owner remains responsible for all charges owed to the District whether or not the property owner actually lives on the premises or signs the application for water service.

10.17 Meter Reading, Billing Period, and Due Date - The billing will be based on the periodic meter readings which will normally range between 26 and 35 days. If a meter fails to register during any period, or is known to register inaccurately, the customer shall be charged based on estimated usage. The billings for water service are mailed approximately, eight days after the meter readings. Current charges are due when mailed and become past due if not paid on or before the due date. The due date shall be 20 days after the billing date. All billings are considered delivered upon mailing and the District is not responsible for non-receipt or non-delivery once mailed. Any payment envelope received by the District without a payment enclosed, or with an unsigned check, shall be considered non-payment. Checks received on payment of account and later returned by the bank unpaid shall also be considered as non-payment, and a returned check charge will be assessed. Accounts with one or more returned checks may be required to make future payments by cash, money order, or charge card only.

10.18 Reactivation - If payment is not made, as stipulated above, and charges remain unpaid on the shut-off date stated on the delinquent billing notice, water service shall be discontinued, a disconnection charge assessed, and a deposit required. If an account has been

disconnected for non-payment, the original bill, delinquent and disconnection charges, and a deposit must be paid before service will be reestablished. Payment for charges on an account that has been disconnected must be made in cash, money order, or charge card.

10.19 Past Due Accounts - Rates and charges which are not paid on or before the due dates shall be subject to interest charges. Interest will be calculated at a rate of one and one-half percent (1 1/2 %) on all amounts that remain unpaid at the end of each billing cycle. The District may secure unpaid charges by filing liens on real property, as provided by law or by any other method available to the District. In the event that legal action is brought to collect unpaid charges, the District shall be entitled to the payment of all costs, including attorney's fees. Defendant shall pay all costs associated with litigation rendered in favor of the District.

10.20 Billing of Separate Meters not Combined - Separate bills will be rendered for each meter installation. The District may, for its own convenience, consider each register of compound meters as a separate service and bill each as provided for herein. For its own convenience, the District may combine multiple services on one bill.

10.21 Billing Period - The regular billing period will be monthly.

10.22 Opening and Closing Bills - Opening and closing bills for less than the normal billing period shall consist of charges for actual water consumption and a proration of the system charge.

10.23 Payment of Bills - Bills for water service shall be rendered at the end of each billing period and are due and payable upon presentation. If full payment is not received at the business office of the District on or before the final due date, the bill shall become past due and delinquent.

10.24 Delinquency Notice - A delinquency notice shall be mailed to customers whose accounts are delinquent, warning that service is subject to disconnection. The delinquency notice will contain all the following:

- the name and address of the customer;
- the amount of the delinquency;

- the date by which payment arrangements must be made in order to avoid discontinuation of service;
- the procedure by which the customer may initiate a complaint or request an investigation or appeal concerning service or charges;
- a description of the procedure by which the customer may request an alternative payment arrangement, including an extension, amortization, alternative payment schedule, or payment reduction;
- the procedure for the customer to obtain information on financial assistance, if applicable; and
- the telephone number where the customer may request a payment arrangement or receive additional information from the District.

Notice of any delinquency in a tenant's account shall also be sent to the owner of the property. See Section 12 of this Ordinance for Disconnection Procedures.

10.25 Removal of Delinquency - At the end of each calendar year, customers may request that the District remove one delinquency from the record of their account when one or more delinquencies have occurred during the previous 12 months.

10.26 Legal Action - All unpaid rates, charges and penalties herein provided may be collected by legal action or through the use of a collection agency.

10.27 Costs - Defendant shall pay all costs of legal action in any judgment rendered in favor of the District, including reasonable attorney's fees.

10.28 Discontinuing Service - Customers desiring to discontinue service should notify the District prior to vacating the premises. Owners shall be liable for on-going charges between tenancy, and in the event of sale, up to the recording date of title to the property being transferred to a new owner. Owners shall also be responsible for charges incurred by a tenant, but that remain unpaid after the tenant has vacated the property. Upon notice, the District will seal off the meter and take a closing reading.

SECTION 11. COMPLAINTS AND DISPUTED BILLS

11.01 Right to Meet - The customer has the right to meet with the Financial Officer or General Manager to present any evidence supporting a complaint with regard to water service, District rules, regulations, resolutions or ordinances, or to dispute the accuracy of a bill for service or other charges.

11.02 Arrangement of Meeting - To arrange such a meeting, the customer shall contact the District office, either in writing or by telephone during normal business hours.

11.03 Presentation of Evidence - The customer may be accompanied by a friend, attorney, or other representative to meet with the Financial Officer or General Manager and may present any evidence they may have to support their position.

11.04 Unresolved Disputes - If the customer is unable to resolve his dispute with the Financial Officer or General Manager, he/she may submit the complaint in writing along with a full and detailed explanation to the Board of Directors for resolution.

11.05 Appearances Before the Board of Directors - The customer may appear before the Board of Directors at the next regularly scheduled Board meeting by notifying the District Clerk, in writing, prior to the Board meeting of the date he/she wishes to attend and what the dispute regards. The customer may then present the complaint and any evidence in support of his/her position and ask for a decision by the Board.

11.06 Delays on Action - The Board shall act promptly to resolve the dispute, but may delay a resolution of the dispute to the time of its next regular meeting in order to investigate the dispute or receive special reports related to the dispute.

11.07 Further Delays - Any further delays must be freely and willingly agreed to by the customer.

11.08 Decision of the Board - The decision of the Board of Directors shall be final. Should the Board not render a decision within sixty (60) days of application to the Board, this failure to act shall be deemed a denial of the requested action, unless both parties have agreed to extend the resolution period.

11.09 Discontinuance of Service - No water or other service shall be discontinued pending the final resolution of a dispute.

11.10 Adjustment for Fast Meter Errors - If a meter tested at the request of a customer is found to be more than five percent (5%) fast, the excess charges for the time service was rendered the customer, or excess charges for a period of six months, whichever shall be the lesser, shall be refunded to the customer.

11.11 Adjustment for Slow Meter Errors - If a meter tested at the request of a customer is found to be more than ten percent (10%) slow and shows evidence of tampering, the District may bill the customer for the amount of the undercharge based upon corrected meter readings for the period, not exceeding six (6) months, that the meter was in use.

11.12 Non-Registering Meters - If a meter is found to be not registering, the charges for service shall be based on the estimated consumption. Such estimates shall be made from previous consumption for a comparable period, or by such other method as is determined by the District, and its decision shall be final.

SECTION 12. DISCONNECTION FOR NON-PAYMENT

12.01 Disconnection for Non-Payment - Residential water service shall be discontinued if payment for water service is not made within sixty (60) calendar days of the date of mailing the delinquent notice. All other notifications and communication required in the District's Policy on Discontinuation of Residential Water Service shall be delivered prior to disconnection. Non-residential water service may be discontinued if payment for service is not made within fifteen (15) calendar days. At no time shall the District discontinue water service at a time when the District offices are closed.

12.01.01 Tenant Occupied Property - If water and other services to an account, where the tenant is shown as the Customer of Record, are discontinued for non-payment, the account will be revised to show the owner as primary Customer of Record. The owner will continue to be shown as primary Customer of Record for as long as they own the property. Tenants

may be shown as an additional Customer of Record with the consent of the property owner, or in the event that an account in the property owners name is subject to disconnection.

12.02 Complaint Procedures for Disconnection - Service disconnection for non-payment of bills or for violation of any of the District's rules, regulations, ordinances, or resolutions is subject to the complaint procedures specified in Section 11 herein.

12.03 Refusal or Neglect to Pay Debt - Any amount due is a debt to the District and any person, firm or corporation failing, neglecting, or refusing to pay this debt may be subject to a civil action for the amount due in a court of competent jurisdiction.

12.04 Lien Against Property for Non-Payment - Any unpaid debt will be deemed a lien against the real property to which service is rendered as specified herein and California Water Code Section 31701.5 et.seq.

12.05 Service Charges for Violations - If water service is discontinued for violation of any of the District's rules, regulations, resolutions or ordinances, service shall not be re-instituted until the violations have been corrected and all applicable service charges and fees as provided for herein are paid in full by cash, payment card, money order, or cashier's check.

12.06 Partial Payments - A partial payment of a delinquent account may be accepted and credited to a customer's account, but such partial payment shall not be cause for removing the account from a delinquent status and shall not preclude the meter from being turned off for delinquency.

12.07 Authorization for Continuance of Service for Delinquent Accounts - The General Manager or his designee may authorize continuation of service to a delinquent account if financial arrangements satisfactory to the District have been established.

SECTION 13. ADDING DELINQUENT CHARGES TO TAX ROLL

13.01 Report of Delinquent and Unpaid Charges - A report of delinquent and unpaid charges for water and other services which remain unpaid and delinquent for sixty (60) days or more on July 1st of each year shall be prepared and submitted to the Board for consideration as

tax liens. The unpaid delinquent charges listed in said report for each parcel of property shall be fixed at the amount listed in said report.

13.02 Adoption and Filing of Report - The Secretary shall file with the County Assessor of the County of San Bernardino and the Board of Supervisors of the County of San Bernardino, in the time and manner specified by the County Assessors and Board of Supervisors, a copy of such written report with a statement endorsed thereon over the signature of the Secretary, that such a report has been adopted and approved by the Board of Directors and that the County Assessor shall enter the amount of such charges against the respective lots or parcels of land as they appear on the current assessment roll.

13.03 Collection of Delinquent and Unpaid Charges - The amount of any charges for water and/or other services included in the report prepared and submitted pursuant to Sections 13.01 and 13.02 above shall be added to and become a part of the annual taxes next levied upon the property upon which the water for which the charges are unpaid was used, and upon the property subject to the charges for any other District services, and shall constitute a lien on that property as of the same time and in the same manner as does the tax lien securing such annual taxes as provided in Section 12.04 above.

SECTION 14. CHARGES AND DEPOSITS

14.01 Adoption - The amount of all charges and deposits described herein shall be updated in the District's Schedule of Water and Wastewater Rates and Charges and adopted by separate Board resolution.

14.02 Security Deposit - The Security deposit insures payment of minimum District charges. Upon discontinuance of service the security deposit shall be applied to reduce any outstanding charges on any accounts held by the customer with the District. The security deposit shall be refunded to the customer as provided in Section 6.04.02 herein.

14.03 Service Initiation Charge - The service initiation charge is a non-refundable charge which covers the reasonable District costs for initiating water service.

14.04 Water System Charge - The system charge is the monthly availability charge applicable to all metered services and shall apply whether or not premises served by the meter are occupied. This charge will vary based on the size of the meter.

14.05 Commodity Charge - The commodity charge is the charge per hundred cubic feet (HCF) of water registered by the District's water meter. Commodity charges are assessed in three tiers with ascending rates, and the number of HCF billed in each tier is determined by a customer's water budget as explained in a previous section of this ordinance.

14.06 Delinquent Charge - A delinquent charge shall be added to each delinquent account at the time any amount becomes delinquent, provided that no delinquent charge shall be made on any account which at the time has no delinquencies of record. When a delinquent charge is made, such charge shall be added to the delinquent account as of the date the account becomes delinquent and the charge shall become an inseparable part of the amount due as of that time.

14.07 Disconnection Notice Charge - The disconnect notice charge is the charge which covers reasonable District costs to notify customers that their water service is subject to impending termination.

14.08 Service Reconnect Charge - The service reconnect charge is the charge which covers the reasonable District costs for disconnection and reconnection of service connections which are in violation of the provisions contained herein.

14.09 Meter Test Charge - The meter test charge is the charge which covers the District costs for removing, bench testing, and reinstalling the water meter to be tested.

14.10 AMI Opt-Out Fee - The AMI opt-out fee will be assessed when a customer has made written request not to have an AMI meter installed at their property and covers the costs of staff and equipment in taking a manual read of the opt-out customer's meter.

14.11 Returned Payment Fee - The returned payment fee is a charge which covers the reasonable administrative cost and banking charges for processing a returned check, or to respond to a disputed charge where a payment card was fraudulently used to make payment on an account.

14.12 Temporary Service Charge - A temporary service is available through the use of a fire hydrant. A customer deposit for the temporary service will be required. All other applicable service charges shall apply.

14.13 Unauthorized Use of Water Charge - The unauthorized use of water charge shall be charged to any person, organization or agency for each unauthorized use of District water, or for tampering in any manner with any meter belonging to the District, in which tampering shall affect the accuracy of such meter. Where the unauthorized use of water or tampering results in the District's action to remove the meter, there shall be a charge for the removal and re-installation.

14.14 Fire Hydrant Installation Charge - The charge for installation of fire hydrants as may be required.

14.15 Fire Service Standby Charge - The fire service standby charge is the monthly standby charge per inch diameter of the District fire service meter. Water use through this service is limited to emergency fire requirements only.

14.16 Backflow Device Installation Fee - This fee will be collected to cover the cost of the installation of a backflow device by District staff if the property owner requests that the District install the device.

14.17 Backflow Inspection Fee - The charge will cover the cost of inspecting a newly installed backflow prevention device where District staff has not performed the installation.

14.18 Backflow Compliance Testing Fees - The charge to cover costs of District staff conducting an initial compliance test of a customer device. If District staff will conduct annual compliance tests, customers may elect to pay for the annual test with a monthly charge billed to their water account.

14.19 Backflow Annual Administration Fee - This fee is an annual assessment to customers to cover the cost of administering a backflow compliance program.

14.20 Water Capacity Charge - The capacity charge is a fee for that incremental portion of the entire water system and District facilities that will be used by a new service.

14.21 Water Service Connection Charge - The water service connection charge is the charge for the type and size of water service connection desired. Such regular charge shall be paid in advance by the applicant. Where there is no regular charge, the District reserves the right to require the applicant to deposit an amount equal to the estimated cost of such service connection.

14.22 Fire Service Connection Charge - The charge for installation of fire services as may be required.

14.23 Inspection Charge - Where a customer service connection or facility requires inspection by District personnel, the customer shall be charged for such inspection.

14.24 Special Facility Charge - A special facility charge shall be for the development of a limited service area whenever special facilities including, but not limited to, booster stations, hydropneumatic stations and pressure regulators are required. The charge to be made to a developer or owner of land that is considered by the District to be within a limited service area shall be based upon the developer's or landowner's proportionate share of the cost of the installation of such special facility. Such proportionate share to be borne by the developer or landowner shall be based on the percentage of such development to the entire limited service area to be served by the special facilities and the difference between the cost of facilities to serve the same number of acres or area under normal conditions and the cost of facilities to serve the acreage or area under special conditions at a higher cost.

14.25 Water Main Extension Charge - The water main extension charge is for the construction of a water main extending to the far side of the property to be served. This charge shall be based on the prevailing rates of time and material per District approved plans. The customer shall be responsible to provide the plans and for all applicable Engineering Services charges described in Section 14.27.

14.26 Water System Design Charge - A non-refundable water system design charge shall be required for all main extensions, service connection and/or special facilities requiring the preparation of engineering plans and drawings.

14.27 Engineering / New Development Service Charges - The following Engineering/New Development Service charges will be established based on the calculated estimate of the District's time and effort spent on assisting customers who have a requirement to construct water facilities:

- Drafting of an Availability Letter
- Construction Inspection
- Drafting/preparing revisions to a Development Agreement
- Development and Engineering Research
- Development Meeting
- Easement / Quitclaim Processing
- Water / Sewer Inquiry
- New Construction Chlorination and Flushing
- Water Quality Sampling
- Plan Checking
- Drafting a Will Serve Letter

14.28 Construction Water Charge - The charge for construction water will be calculated at the Tier 3 rate.

14.29 Fire Flow Test Charge - The fire flow test charge is a flat rate to cover the District's time and effort for testing parts of the water system to obtain fire flow test data and calculate results as requested.

14.30 Valve Can Deposit - The valve can deposit is a refundable charge that is used to ensure all valve cans and caps are constructed to final grade before a water system construction project is complete. The District will accept a Guarantee Bond in lieu of a cash deposit. The fee will be returned or the Bond released when valve cans and caps are constructed to final grade by the Developer's contractor and verified by the District.

14.31 Charges and Deposits - All rates, charges, fees, penalties, fines, deposits, and other methods of assessment are set by the District's Board of Directors. The General Manager/CEO, or appointed designee, may approve adjustment to any charges, late penalties, past due account fees or service deposits pursuant to the District's procedures and applicable law.

SECTION 15. WATER CONSERVATION

15.01 Waste or Nuisance Water and Other Substances - It is unlawful for any person, firm or corporation to deposit, drain, wash, or allow to run or divert water, mud or sand into, or upon, any public road, highway, street, alley, drainage ditch, storm drain, flood control channel owned or controlled by any public agency within the District. When a written application is filed with the District, and approved by the General Manager, a permit may be granted with terms and conditions and applicable fees as it may deem appropriate to impose to such person. For purposes of enforcement of this section, the owner of the meter, or property, which is the source of the "waste or nuisance water and other substances" as defined herein will be considered the responsible party. Any violations cited hereunder, and defined as being detrimental to public health, safety or welfare, will be borne by the responsible party.

15.02 Conservation Measures - Stage No.1 Normal Conditions: Permanent Conservation Measures - Stage No. 1 Normal Conditions shall be in effect when the District is able to meet all the water demands of its customers in the immediate future. During these normal conditions all water users should continue to use water wisely, to prevent the waste or unreasonable use of water, and to reduce water consumption to that necessary for ordinary domestic and commercial purposes.

15.02.01 Excessive Irrigation and Related Waste - No property within the East Valley Water District service area shall cause or permit the use of water for irrigation of landscaping or other outdoor vegetation, to exceed the amount required to provide reasonable irrigation, and shall not cause or permit any unreasonable or excessive waste of water from said irrigation activities or from watering devices or systems.

15.02.02 Run-off - The free flow of water away from a meter service area shall be presumptively considered excessive irrigation and waste as defined in Section 3 herein.

15.02.03 Wash-down - No water provided by the District shall be used for the purposes of wash-down of impervious areas, without specific written authorization of the General Manager.

15.02.04 Vehicle Washing - The washing of cars, trucks or other vehicles is not permitted, except with a hose equipped with an automatic shut-off device, or a commercial facility.

15.02.05 Decorative Features - Water fountains or other decorative water features must re-circulate water.

15.02.06 Irrigation After Measurable Rainfall - The application of potable water to outdoor landscape for irrigation purposes during or after 48 hours of measurable rainfall is prohibited.

15.02.07 Drinking Water Provided by Restaurants - Restaurants are requested not to provide drinking water to patrons except by request.

15.02.08 Hotel and Motel - Hotels and motels must offer their guests the option to not have their linens and towels laundered daily, and must prominently display this option in each room.

15.02.09 Domestic Irrigation - The District may determine that the irrigation of exterior vegetation shall be conducted only during specified hours and/or days, and may impose other restrictions on the use of water for such irrigation. Irrigation done with a weather based irrigation controller is exempt from specified irrigation day.

15.02.10 Irrigation of Medians - Medians located within the right-of-way are prohibited from using potable water to irrigate turf or other high water use plant material as identified by the Water Use Classifications of Landscaping Species (WUCOLS) Guide. The continued irrigation and preservation of trees is encouraged.

15.02.11 Bordering Parkways - Bordering parkways located within the right-of-way are prohibited from using potable water to irrigate turf or other high water use plant material

as identified by the Water Use Classifications of Landscaping Species (WUCOLS) Guide. Bordering parkways are considered the strips of non-functional ornamental turf adjacent to the street. The continued irrigation and preservation of trees is encouraged.

15.03 Stage No. 2 - Threatened Water Supply Shortage - In the event of a threatened water supply shortage which could affect the District's ability to provide water for ordinary domestic and commercial uses, the Board of Directors shall hold a public hearing at which consumers of the water supply shall have the opportunity to protest and to present their respective needs to the District. The Board may then, by resolution, declare a water shortage condition to prevail, and the following conservation measures shall be in effect in addition to the permanent conservation measures in Stage No. 1:

15.03.01 Exterior Landscape Plans - Exterior landscape plans for all new development shall be in compliance with the State Model Water Efficient Landscape Ordinance. Such plans shall be presented to and approved by the District prior to issuance of a water service letter.

15.03.02 Leaks or Breaks - Excessive loss or water use through breaks or leaks from either indoor or outdoor plumbing fixtures must be repaired within seven (7) days after discovery.

15.03.03 Agricultural Irrigation - Persons receiving water from the District who are engaged in commercial agricultural practices, whether for the purpose of crop production or growing of ornamental plants shall provide, maintain, and use irrigation equipment and practices which are the most efficient possible. Upon the request of the General Manager, these persons may be required to prepare a plan describing their irrigation practices and equipment, including but not limited to, an estimate of the efficiency of the use of water on their properties.

15.03.04 Commercial Facilities - Commercial and industrial facilities shall, upon request of the General Manager, provide the District with a plan to conserve water at their facilities. The District will provide these facilities with information regarding the average monthly water use by the facility for the last two year period, or the State of California approved

conservation base year. The facility will be expected to provide the District with a plan to conserve or reduce the amount of water used by that percentage deemed by the Board of Directors to be necessary under the circumstances. After review and approval by the General Manager, the water conservation plan shall be considered subject to inspection and enforcement by the District.

15.03.05 Parks, Golf Courses, and School Grounds - Public and private parks, golf courses, and school grounds which use water provided by the District shall use water for irrigation within a designated watering schedule, which may include specific hours and/or day(s).

15.03.06 Swimming Pools - All residential, public, and recreational swimming pools, of all sizes, shall use evaporation resistant covers and shall re-circulate water.

15.03.07 General Manager Emergency Authority - The Board of Directors appoints the General Manager/CEO the authority, to implement and enforce measures necessary to remain in compliance with emergency statewide mandatory conservation measures. Actions taken by the General Manager/CEO in accordance with State regulations outside of those listed in this Ordinance must be reported to the Board at the next regularly scheduled meeting.

15.04 Stage No.3 - Water Shortage Emergency: Mandatory Conservation Measures
- In the event of a water shortage emergency in which the District may be prevented from meeting the water demands of its customers, the Board of Directors shall, if possible, given the time and circumstances, immediately hold a public hearing at which customers of the District shall have the opportunity to protest and to present their respective needs to the Board. No public hearing shall be required in the event of a breakage or failure of a pump, pipeline, or conduit causing an immediate emergency. The General Manager is empowered to declare a water shortage emergency, subject to the ratification of the Board of Directors within seventy-two (72) hours of such declaration, and the following rules and regulations shall be in effect immediately following such declarations:

15.04.01 Prohibition - Watering of parks, school grounds, golf courses, lawn water, landscape irrigation, washing down of driveways, parking lots or other impervious surfaces, washing of vehicles, except when done by commercial car wash establishments using only

recycled or reclaimed water, filling or adding water to swimming pools, wading pools, spas, ornamental ponds, fountains, and artificial lakes are prohibited.

15.04.02 Construction Meters - No new construction meter permits shall be issued by the District. All existing construction meters shall be removed and/or locked.

15.04.03 Commercial Nurseries and Livestock - Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.

15.05 Implementation and Termination of Mandatory Compliance Stages - The General Manager of the District shall monitor the supply and demand for water on a daily basis to determine the level of conservation required by the implementation or termination of the Water Conservation Plan Stages and shall notify the Board of Directors of the necessity for the implementation, or termination, of each stage. Each declaration of the Board of Directors implementing, or terminating, a water conservation stage shall be published at least once in a newspaper of general circulation and shall be posted at the District offices. Each declaration shall remain in effect until the Board of Directors otherwise declares, as provided herein.

15.06 Exceptions - Application for Exception Permits - The General Manager may grant permits for uses of water otherwise prohibited under the provisions of this Ordinance if he finds and determines that restrictions herein would either:

15.06.01 Hardship - Cause an unnecessary and undue hardship to the water user or the public; or

15.06.02 Emergency - Cause an emergency condition affecting the health, sanitation, fire protection or safety of the water use or of the public.

15.06.03 Exemptions Granted - Such exceptions may be granted only upon written application therefor. Upon granting such exception permit, the General Manager may impose any conditions he determines to be just and proper.

15.07 Enforcement, Inspection - Authorized employees of the District, after proper identification may, during reasonable hours, inspect any facility having a water conservation plan, and may enter onto private property for the purpose of observing the operation of any water

conservation device, irrigation equipment or water facility. Employees of the District may also observe the use of water or irrigation equipment within the District from public right-of-ways.

15.08 Criminal Penalties for Violation - Water Code Section 31029 makes any violation of this Ordinance a misdemeanor and upon conviction thereof, the violator shall be punished by imprisonment, fine or by both fine and imprisonment as may be allowed by law.

15.09 Civil Penalties for Violation - In addition to criminal penalties, violators of the mandatory provisions of this Ordinance shall be subject to civil action initiated by the District as follows:

15.09.01 First Violation: For a first violation, the District shall issue a written notice of violation to the water user violating the provisions of this Ordinance. The notice shall be given pursuant to the requirements of Section 15.10 below.

15.09.02 Second Violation: \$100 Surcharge - For a second violation of this Ordinance within a 12-month period, or failure to comply with the notice of violation within thirty (30) days after notice of imposition, a surcharge of \$100 is hereby imposed for the meter through which the wasted water was supplied.

15.09.03 Third Violation: \$300 Surcharge - For a third violation of this ordinance within a 12-month period, or for continued failure to comply within thirty (30) days after notice of an imposition of second violation sanctions, a one-month penalty surcharge in the amount of \$300 is hereby imposed for the meter through which the wasted water was supplied.

15.09.04 Fourth Violation: \$500 Surcharge - For a fourth violation of this ordinance within a 12-month period, or for continued failure to comply within thirty (30) days after notice of an imposition of third violation sanctions, a one-month penalty surcharge in the amount of \$500 is hereby imposed for the meter through which the wasted water was supplied.

15.09.05 Fifth Violation: \$500 Surcharge and/or Installation of a Flow Restrictor - For a fifth violation of this ordinance within a 12-month period, or for continued failure to comply within thirty (30) days after notice of an imposition of fourth violation sanctions, a one-month penalty surcharge in the amount of \$300 is hereby imposed for the meter through

which the wasted water was supplied. In addition to the surcharge, the District may, at its discretion, install a flow-restricting device at such meter with a one-eighth inch (1/8") orifice for services up to one and one-half (1-1/2") inch size, and comparatively sized restrictors for larger services, on the service of the customer at the premises at which the violation occurred for a period of not less than forty-eight (48) hours. The charge to the customer for installing a flow-restricting device shall be based upon the size of the meter and the actual cost of installation but shall not be less than that provided in the District's Rules and Regulations. The charge for removal of the flow-restricting device and restoration of normal service shall be as provided in the District's Rules and Regulations.

15.09.06 Subsequent Violations: Discontinuance of Service - For any subsequent violation of this Ordinance, while in Stage No. 3, within the twenty-four (24) calendar months after a first violation as provided in Section 15.09.01 hereof, the penalty surcharge provided in Section 15.09.05 hereof shall be imposed and the District may discontinue water service to that customer at the premises or to the meter where the violation occurred. The charge for reconnection and restoration of normal service shall be as provided in the Rules and Regulations of the District. Such restoration of service shall not be made until the General Manager of the District as determined that the water user has provided reasonable assurances that future violations of this Ordinance by such user will not occur.

15.10 Notice - First Violation - For a first violation, written notice shall be given to the customer and/or property owner personally or by regular mail.

15.10.01 Subsequent Violations - If the penalty assessed is a surcharge for a second, third, fourth, fifth, or subsequent violation, notice may be given by regular mail.

15.10.02 Violations Involving Installation of Flow-Restrictors or Discontinuance of Water Service - If the penalty assessed is, or includes, the installation of a flow restrictor or the discontinuance of water service to the customer for any period of time, notice of the violation shall be given in the following manner:

a. **Personal Service** - By giving written notice thereof to the occupant and/or property owner personally; or if the occupant and/or property owner is absent from his/her place of residence and from his/her assumed place of business, by leaving a copy with some person of suitable age and discretion at either place, and sending a copy through the United States mail addressed to the occupant and/or owner at his/her place of business or residence; or

b. **Posting** - If such place of residence and business cannot be ascertained, or a person of suitable age or discretion cannot be located, then by affixing a copy in a conspicuous place on the property where the failure to comply is occurring and also by delivering a copy to a person there residing, if such person can be found, and also sending a copy through the United States mail addressed to the occupant at the place where the property is situated and the owner if different.

15.10.03 Form of Notice - All notices provided for in this Section shall contain, in addition to the facts of the violation, a statement of the possible penalties for each violation and a statement informing the occupant/owner of his/her right to hearing on the violation.

15.11 Community Advisory Commission - The District may establish a Community Advisory Commission (Commission) consisting of District customers appointed by the Board of Directors to serve in the capacity as herein described. The number of commissioners shall be determined by resolution of the Board of Directors. The Commission is authorized to hear appeals from enforcement decisions made by the General Manager for violations of the water conservation measures provided in Section 15 of this ordinance. The Commission shall serve as an advisory body to the Board of Directors. The Board of Directors shall consider the recommendations of the Commission but will not be bound thereby.

15.11.01 Hearings - Any customer or property owner against whom a penalty is levied pursuant to this ordinance (Appellant) shall have a right to a hearing, in the first instance by the General Manager, with the right to appeal to the Commission. Within fifteen (15) days of the date of the alleged violation, the Appellant shall submit a written request for a hearing to the District Clerk. The hearing shall be conducted by the General Manager within thirty (30) days

from the date of the written request submitted to the District Clerk. The General Manager shall issue his ruling in writing. The Appellant may appeal the ruling of the General Manager within ten (10) days thereof by filing written notice of appeal with the District Clerk. At the next regularly scheduled Commission meeting, the Appellant may appear and present evidence in support of his appeal. The Commission will issue a written recommendation to the Board of Directors who will issue a final determination of the appeal. The Board of Directors may issue its final determination based upon the recommendation of the Commission, or may call for an additional hearing. The ruling of the Board of Directors shall be final and binding upon the Appellant and the District.

SECTION 16. EFFECTIVE DATE

This Ordinance shall take effect and replace Ordinance No. 399 upon adoption.

Adopted this 12th day of May 2021

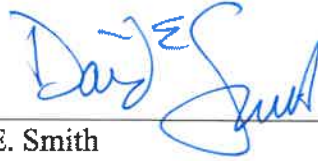
ROLL CALL:

Ayes: Directors: Carrillo, Coats, Goodrich, Morales, Smith

Noes: None

Absent: None

Abstain: None



David E. Smith
Board President

ATTEST:



John Mura
Secretary, Board of Directors

May 12, 2021

I HEREBY CERTIFY that the foregoing is a full, true and correct copy of Ordinance No. 401 adopted by the Board of Directors of East Valley Water District at its Regular Meeting held May 12, 2021.



John Mura
Secretary, Board of Directors

Attachment 2: Adoption Resolution

RESOLUTION NO. 2021.12

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EAST VALLEY WATER DISTRICT
ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN**

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a water shortage contingency plan (WSCP); and

WHEREAS, East Valley Water District meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, The East Valley Water District has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the East Valley Water District's Water Conservation Ordinance No. 401 adopted on May 12, 2021; and

WHEREAS, in accordance with the UWMP Act, the East Valley Water District has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized

the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the East Valley Water District's WSCP was published within the jurisdiction of the East Valley Water District on June 9, 2021 and June 16, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 23, 2021 at 5:30 pm, or soon thereafter, virtually via Microsoft Teams, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, the East Valley Water District, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within East Valley Water District's service area with regard to the preparation of the WSCP, encouraged community input regarding East Valley Water District's WSCP; and

WHEREAS, the Board of Directors has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

WHEREAS, the Board of Directors desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of the East Valley Water District hereby resolve as follows:

1. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Board of Directors;

2. The General Manager is hereby authorized and directed to include a copy of this Resolution in East Valley Water District's WSCP;

3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;

4. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or county within which the East Valley Water District provides water supplies no later than thirty (30) days after this adoption date;

5. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at the East Valley Water District's offices during normal business hours and on the East Valley Water District's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;

6. The General Manager/CEO is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which the East Valley Water District provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;

7. The General Manager/CEO is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the Board of Directors regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

ADOPTED, this 23rd day of June 2021.


ROLL CALL:

Ayes: Directors: Carrillo, Coats, Goodrich, Morales, Smith

Noes: None

Absent: None

Abstain: None



David E. Smith,
Board President

ATTEST:



John Mura,
Board Secretary

June 23, 2021

I HEREBY CERTIFY that the foregoing is a full, true and correct copy of Resolution 2021.12 adopted by the Board of Directors of East Valley Water District at its Regular Meeting held June 23, 2021.



John Mura,
Secretary, Board of Directors



2020 IRUWMP Part 4
Riverside Highland Water
Company Appendix G



G-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 7 Part 1 Chapter 3
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	Part 2 Chapter 7 Executive Summary
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	Part 2 Chapter 7
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	Part 1 Chapter 1
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	Part 4 Appendix G-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 7 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 7 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 7 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 3 Chapter 3 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 7 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 7 Section 2.1.2
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	Part 2 Chapter 7 Section 2.2.1
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	Part 2 Chapter 7 Section 2.2
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	Part 2 Chapter 7 Section 2.1.2
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	Part 2 Chapter 7 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 7 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 7 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 7 Section 3.2
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
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	N/A
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	Part 4 Appendix G-7
Section 5.5 and Appendix G	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	Part 4 Appendix G-7
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	Part 2 Chapter 7 Section 4 Part 2 Chapter 7 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 7 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 7 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 7 Section 4.6.2 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 7 Section 4.7 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 7 Section 4.2
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	Part 2 Chapter 7 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 7 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 7 Section 4.2
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	Part 2 Chapter 7 Section 4.7
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	Part 2 Chapter 7 Section 4.6
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)	Part 2 Chapter 7 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 7 Section 4.5.1
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)	Part 2 Chapter 7 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 7 Section 4.5 Part 1 Chapter 3 Part 4 Appendix G-6
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 7 Section 4.5
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	Part 2 Chapter 7 Section 4.6.2 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 7 Section 4.8 Part 4 Appendix G-6
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	Water Supply Reliability Assessment	Part 2 Chapter 7 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 7 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 7 Section 6
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	Part 2 Chapter 7 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 7 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 7 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 7 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix G-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix G-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix G-9 Section 10.0
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	Part 4 Appendix G-9 Section 2.0
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	Part 4 Appendix G-9 Section 2.0
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	Part 4 Appendix G-9 Section 3.0
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	Part 4 Appendix G-9 Section 3.0
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	Part 4 Appendix G-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix G-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix G-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix G-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix G-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix G-9 Section 4.4&4.5
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	Part 4 Appendix G-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix G-9 Section 5.0
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	Part 4 Appendix G-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix G-9 Section 7.0
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	Part 4 Appendix G-9 Section 7.1
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	Part 4 Appendix G-9 Section 7.2
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	Part 4 Appendix G-9 Section 8.0
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	Part 4 Appendix G-9 Section 8.0
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	Part 4 Appendix G-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix G-9 Section 9.0
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	Part 4 Appendix G-9 Section 4.0
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	Part 4 Appendix G-9 Section 11.0
Section 8.14	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	Part 4 Appendix G-9 Section 11.0
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
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	Part 2 Chapter 7 Section 8
Chapter 5	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	Part 2 Chapter 7 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 7 Section 9 Part 4 Appendix G-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9 Part 4 Appendix G-2 Public Outreach
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 7 Section 9
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	Part 2 Chapter 7 Section 9

G-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

Inland Valley Daily Bulletin-SB

INLAND VALLEY DAILY BULLETIN

Publication Name:

Inland Valley Daily Bulletin-SB

Publication URL:

www.dailybulletin.com

Publication City and State:

Ontario, CA

Publication County:

San Bernardino

Notice Popular Keyword Category:

Notice Keywords:

urban water management plan

Notice Authentication Number:

202106302325035786949

2924553896

Notice URL:

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Notice Publish Date:

Wednesday, June 09, 2021

Notice Content

Riverside Highland Water Company Public Hearing Notice 2020 Integrated Regional Urban Water Management Plan and Water Shortage Contingency Plan Notice is hereby given that on June 24, 2021, at 9:00 a.m. via ZOOM which can be accessed at rhwco.com, Riverside Highland Water Company will conduct a public hearing to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Draft Water Shortage Contingency Plan (WSCP). Following the public hearing, the Board of Directors may adopt the Draft 2020 IRUWMP and Draft WSCP with recommended modifications, if any, as a result of public input. The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents Riverside Highland Water Company's plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The Draft WSCP documents Riverside Highland Water Company's plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies. A copy of the Draft 2020 IRUWMP and Draft WSCP will be available for public review beginning in May 2021 and can be downloaded at rhwco.com or viewed at 12374 Michigan Street, Grand Terrace, CA, 92313. Please contact Riverside Highland Water Company at (909) 825-4128 if you require special accommodations. Please provide written comments on the Draft 2020 IRUWMP documents to Don Hough at dhough@rhwco.com prior to June 24, 2021. If you have any questions regarding Riverside Highland Water Company's 2020 IRUWMP or WSCP or public hearing meeting, please contact Don Hough at (909) 825-4128 or dhough@rhwco.com. Press-Enterprise: 6/09, 6/16

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Inland Valley Daily Bulletin-SB

INLAND VALLEY DAILY BULLETIN

Publication Name:

Inland Valley Daily Bulletin-SB

Publication URL:

www.dailybulletin.com

Publication City and State:

Ontario, CA

Publication County:

San Bernardino

Notice Popular Keyword Category:

Notice Keywords:

urban water management plan

Notice Authentication Number:

202106302320253632633

2924553896

Notice URL:

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Notice Publish Date:

Wednesday, June 16, 2021

Notice Content

Riverside Highland Water Company Public Hearing Notice 2020 Integrated Regional Urban Water Management Plan and Water Shortage Contingency Plan Notice is hereby given that on June 24, 2021, at 9:00 a.m. via ZOOM which can be accessed at rhwco.com, Riverside Highland Water Company will conduct a public hearing to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Draft Water Shortage Contingency Plan (WSCP). Following the public hearing, the Board of Directors may adopt the Draft 2020 IRUWMP and Draft WSCP with recommended modifications, if any, as a result of public input. The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents Riverside Highland Water Company's plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The Draft WSCP documents Riverside Highland Water Company's plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies. A copy of the Draft 2020 IRUWMP and Draft WSCP will be available for public review beginning in May 2021 and can be downloaded at rhwco.com or viewed at 12374 Michigan Street, Grand Terrace, CA, 92313. Please contact Riverside Highland Water Company at (909) 825-4128 if you require special accommodations. Please provide written comments on the Draft 2020 IRUWMP documents to Don Hough at dthough@rhwco.com prior to June 24, 2021. If you have any questions regarding Riverside Highland Water Company's 2020 IRUWMP or WSCP or public hearing meeting, please contact Don Hough at (909) 825-4128 or dthough@rhwco.com. Press-Enterprise: 6/09, 6/16

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G-3: Resolutions

RESOLUTION NO. 2021-1

RESOLUTION OF THE BOARD OF DIRECTORS OF RIVERSIDE
HIGHLAND WATER COMPANY ADOPTING THE 2020 UPPER
SANTA ANA RIVER WATERSHED INTEGRATED REGIONAL
URBAN WATER MANAGEMENT PLAN

WHEREAS, the Riverside Highland Water Company and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the Riverside Highland Water Company participated in the development of the 2015 IRWMPs and adopted the 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and

WHEREAS, Riverside Highland Water Company meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP in 2015, the San Bernardino Valley Regional UWMP (RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the UMWP Act; and

WHEREAS, the Riverside Highland Water Company participated in the 2010 and 2015 RUWMP; and

WHEREAS, both the IRWMP and RUWMP are both due to be updated; and

WHEREAS, the Riverside Highland Water Company and nineteen other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a

consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 – Individual Agency Supporting Information; and

WHEREAS, as a participant in the 2020 IRUWMP, the Riverside Highland Water Company has prepared those portions of the IRUWMP applicable to the Riverside Highland Water Company to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include Part 1, Part 2 Chapter 7: Riverside Highland Water Company UWMP, Part 3, and Part 4 Appendix G: Riverside Highland Water Company Supporting Information; and

WHEREAS, in accordance with applicable legal requirements, the Riverside Highland Water Company has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and

WHEREAS, in accordance with the UWMP Act, The Riverside Highland Water Company has prepared the 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding the Riverside Highland Water Company’s adoption of Part 1, Part 2 Chapter 7, Part 3 and Part 4 Appendix G of the 2020 IRUWMP was published within the jurisdiction of the Riverside Highland Water Company on June 9, 2021, and June 16, 2021: and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 24, 2021

at 9:00 am, or soon thereafter, by virtual meeting in the Board Room in the offices of Riverside Highland Water Company at 12374 Michigan Street, Grand Terrace, CA 92313 and via ZOOM in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, The Riverside Highland Water Company, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the Riverside Highland Water Company's service area with regard to the preparation of the Plan, encouraged community input regarding the 2020 IRUWMP; and

WHEREAS, the Board of Directors has reviewed and considered the purposes and requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and

WHEREAS, the Board of Directors desires to adopt Part 1, Part 2 Chapter 7, Part 3 and Part 4, Appendix G of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of Riverside Highland Water Company hereby resolve as follows:

1. Part 1, Part 2 Chapter 7, Part 3 and Part 4 Appendix G of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Board of Directors;
2. The General Manager is hereby authorized and directed to include a copy of this Resolution in the Riverside Highland Water Company's 2020 IRUWMP;
3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy

of the Riverside Highland Water Company portions of the 2020 IRUWMP to DWR no later than July 1, 2021;

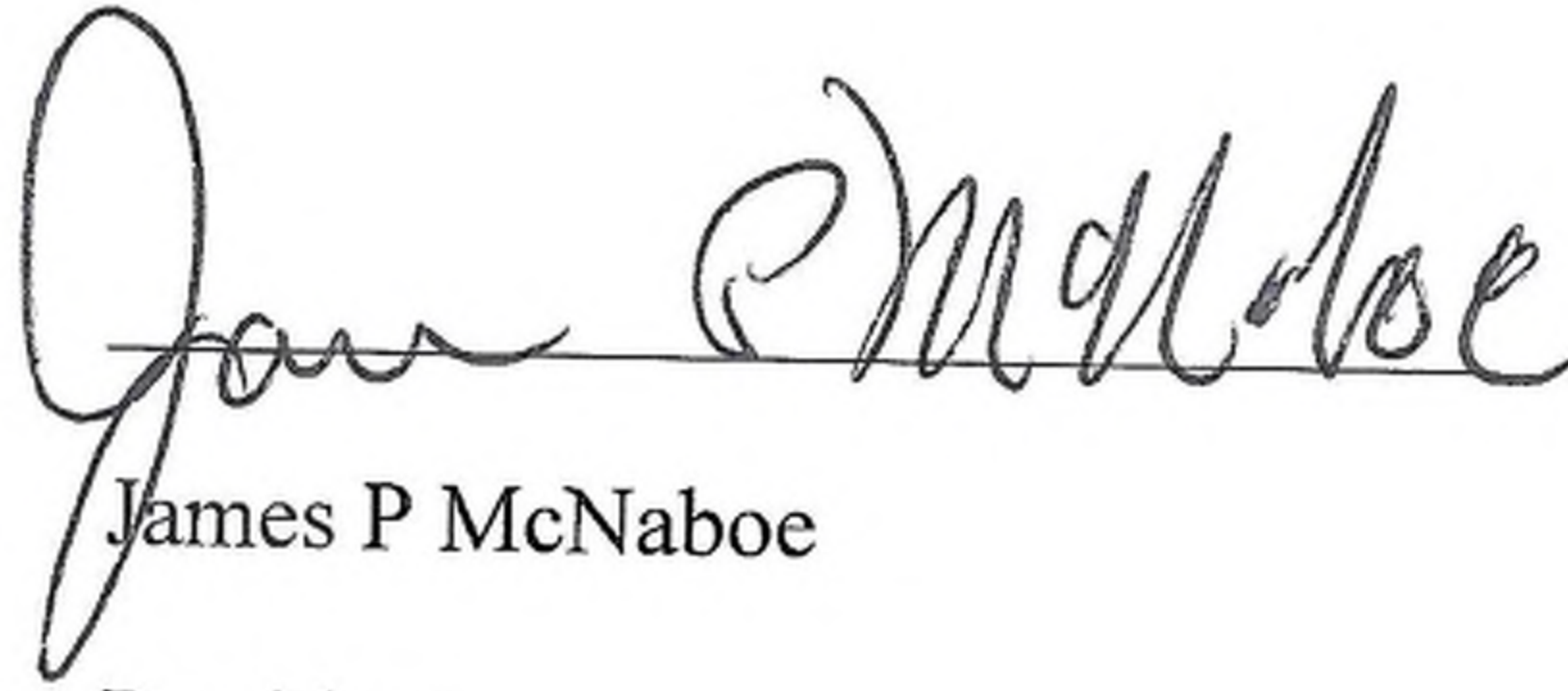
4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which the Riverside Highland Water Company provides water supplies no later than thirty (30) days after this adoption date;

5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at The Riverside Highland Water Company offices during normal business hours and on Riverside Highland Water Company website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;

6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which The Riverside Highland Water Company provides water supplies no later than sixty (60) days after submitting a copy to DWR;

7. The General Manager is hereby authorized and directed to implement the 2020 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the Board of Directors regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

PASSED AND ADOPTED, this 24th day of June, 2021.


James P McNaboe
President

June 24, 2021

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of Resolution 2021-1 adopted by the Board of Directors of Riverside Highland Water Company at its regular meeting held on June 24, 2021.



Donald Larkin Jr.
Secretary-Chief Financial Officer

G-4: Agreements

AGREEMENT BETWEEN
RIVERSIDE HIGHLAND WATER COMPANY AND CITY OF RIVERSIDE

THIS AGREEMENT is entered into as of the 15th day of January, 1992 by and between RIVERSIDE HIGHLAND MUTUAL WATER COMPANY (hereinafter "COMPANY"), and the CITY OF RIVERSIDE, a California Charter City (hereinafter "CITY").

R E C I T A L S

A. The CITY intends to provide domestic water within the current corporate limits of the City of Riverside to various developments including the Hunter Industrial Park.

B. The COMPANY presently provides water to its shareholders within this area for the purposes of agricultural and domestic supply, and the shareholders desire to continue to obtain agricultural water for agricultural purposes within the area until the land is developed for other purposes.

C. The parties to this AGREEMENT desire to define and set the service area to be served by each entity to provide for the orderly provision of water service within a developing area formerly served by the COMPANY.

C O V E N A N T S

NOW THEREFORE, in consideration of the preceding recitals and the mutual covenants contained herein, the parties agree as follows:

Section 1. BOUNDARIES. The parties agree that the boundaries of that portion of the service area of the COMPANY will be described as depicted in EXHIBIT "A" attached hereto and incorporated herein by reference. These boundaries include certain areas outside the corporate limits of the City of Riverside which lie below the 1200 foot elevation, south of Marlborough Avenue and west of Michigan Avenue. The parties further agree that these boundary changes shall be recorded with the Riverside County Recorder and filed with the California Department of Corporations and shall be considered the fixed service area of the COMPANY.

Section 2. SHAREHOLDERS OF COMPANY. The COMPANY agrees to identify those of its existing shareholders who or which will be affected by the provision of water service by the CITY within the area covered by this AGREEMENT and the number of shares each shareholder holds.

Section 3. CITY TO PURCHASE SHARES. The CITY agrees to make a good faith effort to purchase the COMPANY shares (approximately 1337) as development occurs from the shareholders within the Hunter Industrial Park area or other areas identified by the COMPANY at a price negotiated between the CITY and the shareholders. The City shall provide the COMPANY with a written notification for any shareholder declining to sell shares to the CITY. The COMPANY shall make available, and the CITY shall purchase, such additional shares from the COMPANY at the then current price established by the COMPANY for "treasury shares" up to an amount equivalent to the number of shares within the service area of the CITY within the Hunter Industrial Park area or other developments. Pursuant to the acquisition of the shares of the COMPANY, the CITY shall maintain all the voting rights consistent with the voting rights of other shareholders, except the CITY agrees to limit its representation on the COMPANY'S Board of Directors at any time to no more than two (2) members.

Section 4. SERVICE AND TERM.

Section 4.1. COMPANY TO PROVIDE SERVICE. The COMPANY agrees to provide domestic/drinking water directly to the CITY transmission system in an equivalent amount, per share, as is delivered to all other shareholders. Currently, this amount is 0.37 acre feet per year per share of stock. CITY agrees to pay for such water, on a bimonthly basis, the adopted domestic water rate established by the COMPANY for all shareholders, as set forth in Exhibit "B" attached hereto and incorporated herein by reference. CITY agrees to pay the COMPANY for assessments levied on shares held by the CITY under the same terms and conditions as all other shareholders. Said payment for assessments shall continue for a minimum of ten (10) years after the shares are purchased.

Section 4.2 IRRIGATION BY COMPANY. CITY agrees that COMPANY may continue to supply irrigation water for agricultural purposes to its remaining shareholders within the water service area annexed to the CITY.

Section 4.3 MINIMUM TERM OF AGREEMENT. The initial term of this agreement shall be ten (10) years from the date of execution hereof. At the conclusion of that initial term, the CITY may sell its COMPANY shares to third parties, terminate the payment of the assessment, take no further water from the COMPANY,

and relinquish the shares to the COMPANY as undistributed treasury shares.

Section 5. ELECTION BY THE CITY. The CITY may elect not to take water deliveries directly from COMPANY, but in lieu thereof to extract from CITY wells within the Bunker Hill Basin the amount of water equivalent to the amount of entitlement under the COMPANY shares held by the CITY, and deliver the water directly to the distribution system of the CITY. The COMPANY does not warrant the quality of water taken by the CITY under this election. If the CITY elects to extract its entitlement from CITY wells, CITY shall pay to the COMPANY, in addition to the assessment as provided in Section 4, an amount to cover the cost of accounting for the water extracted from CITY wells. Said amount shall be \$10.00 per month plus \$3.02 per acre foot of water per year subject to adjustment by the same percentage that the COMPANY applies for annual increases to its customers. Such election shall not adversely affect the water rights of the COMPANY within the Bunker Hill Basin as set forth in the judgement entitled Western Municipal Water District, et al, v. east San Bernardino County Water District, et al, Riverside County Superior Court No. 78426.

Section 6. METER. The City shall install a meter and appropriate appurtenances at a mutually agreeable location or locations to measure the water delivered in accordance with this AGREEMENT. The COMPANY agrees that no meter fee will be charged for this connection to the COMPANY'S water system. The CITY shall maintain such meter at no expense to the COMPANY, and will allow the COMPANY to inspect and test the meter at the COMPANY'S expense.

Section 7. INDEMNIFY COMPANY. The City shall indemnify and hold the COMPANY harmless from any litigation brought by any third parties challenging the terms, provisions, or legality of the AGREEMENT or any action of the CITY taken pursuant thereto.

Section 8. NOTICES. Any notice, tender or delivery to be given hereunder by either party to the other shall be effected by personal delivery in writing or by registered or certified mail, postage prepaid, return receipt requested, and shall be deemed communicated as of mailing or, in case of personal delivery, as of actual receipt. Mailed notices shall be addressed as set forth below, but each party may change its address by written notice in accordance with this section.

TO: RIVERSIDE HIGHLAND WATER COMPANY
1450 Washington Street
Colton, CA. 92324

TO: CITY OF RIVERSIDE
Public Utilities Department
3900 Main Street
Riverside, CA. 92522

Section 9. ARBITRATION OF DISPUTES. Any dispute or controversy arising out of, under, or in connection with or in relation to this AGREEMENT, or any amendments hereof, or the breach hereof, shall be submitted to arbitration in accordance with the following procedures:

A party desiring arbitration ("First Party") shall give written notice to the other party ("Second Party") containing a general description of the issues to be arbitrated, and designating by name and address, three proposed arbitrators acceptable to the First Party, each of whom shall have agreed to act as arbitrator, if selected. If the Second Party agrees upon one of the three proposed arbitrators, the Second Party shall so advise the First Party in writing within ten (10) business days of receipt of the First Party's written notice.

The arbitrator selected shall promptly give written notice of a proposed arbitration hearing which shall take place within sixty (60) days of the date of the arbitrator's selection.

The arbitration hearing shall take place in Riverside, California. If the Second Party fails to agree to the selection of one of the three proposed arbitrators within the ten (10) business day period, an arbitrator shall be appointed in accordance with the California Arbitration Act, Section 1280 through 1294.2 of the Code of Civil Procedure.

The cost of the arbitration shall be paid by the Parties equally. Except as otherwise provided herein, the arbitration shall be conducted and enforced in accordance with the provisions of the California Arbitration Act, Section 1280 through 1294.2 of the Code of Civil Procedure.

Section 10. ATTORNEYS' FEES. If a dispute arises, which cannot be resolved by arbitration, regarding breach, enforcement, or arbitration, of the provisions of this AGREEMENT, the prevailing party in any legal action brought in connection therewith shall be entitled to recover all attorneys' fees or other costs actually incurred therewith. In any action brought, the entitlement to recover attorneys' fees and costs will be considered an element of costs and not of damages.

Section 11. AMENDMENTS. This is an entire AGREEMENT and supersedes any and all prior agreements, oral or written, between the parties. This AGREEMENT may only be amended in writing, with specific reference hereto by parties authorized to be charged. Failure by either party to enforce any provisions shall not constitute a waiver of said parties' right to enforce the provision upon subsequent violation thereof or any other provisions.

Section 12. SUCCESSORS AND ASSIGNS. This AGREEMENT shall be binding upon and insure to the benefit of the successors and assigns of the parties.

Section 13. CAPTIONS. The captions of section and subsections of this AGREEMENT are for reference only and are not to be construed in any way as a part of this agreement.

Section 14. VALIDITY. This Agreement will be construed in accordance with the laws of the State of California.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed by their respective officers as of the date first above written.

RIVERSIDE HIGHLAND MUTUAL WATER COMPANY

By Walter M. Green
President

CITY OF RIVERSIDE

APPROVED AS TO FORM

D. T. P. [Signature]
1/14/76 ASST. CITY ATTORNEY

By Terry Truzzel
Mayor

By AREN E. LINDQUIST
City Clerk

Mary J. Manfraw
[Signature]

EXHIBIT "B"

DOMESTIC WATER RATES

1. Domestic Water Billing (Section 4.1) Subject to Periodic Rate Adjustment by the Board of Directors as for All Other Domestic Water Users:
 - A. Published Share Assessment as of April 1, 1991:
Bimonthly Assessment = \$4.25 per share
 - B. Bimonthly Bill for Water - using Domestic Consumption Rate as of April 1, 1991:
0 to 119.7 acre feet @ \$0.56/100 cu. ft.
119.7 to 214.87 acre feet @ \$0.72/100 cu. ft.

Exhibit A

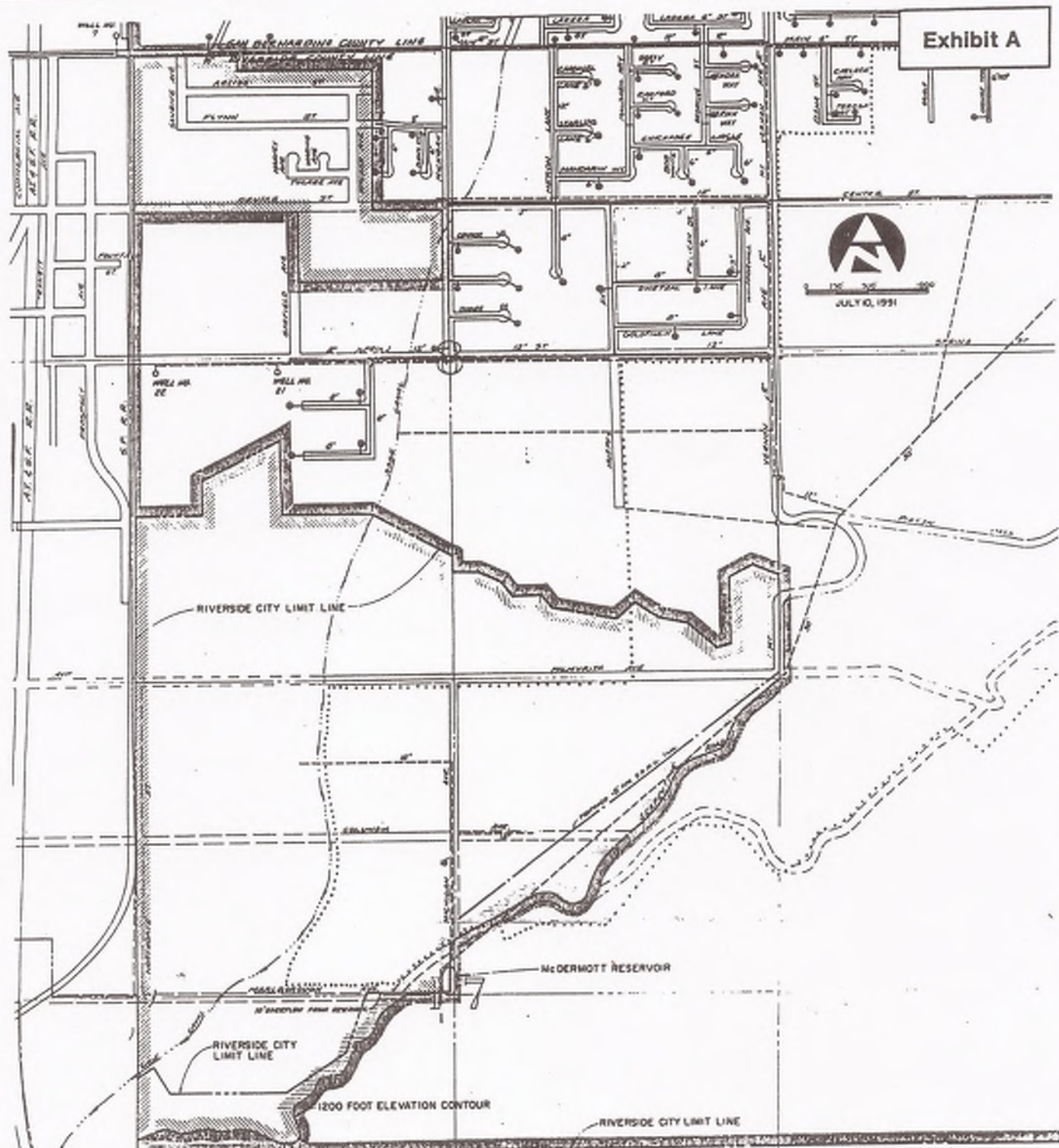


EXHIBIT A APPROVED BY:
William J. McKee
President
CITY OF RIVERSIDE

LEGEND
Riverside Highland Water Company Service Area
City of Riverside Service Area

PLAT SHOWING
WATER SERVICE AREAS OF
RIVERSIDE HIGHLAND WATER
COMPANY AND THE
CITY OF RIVERSIDE

THIS PLAT TO ACCOMPANY AGREEMENT DATED

P.N. 2, 8045

05 6245

G-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information

Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	Riverside Highland Water Company	8110730826	3/22/2021 9:48:15 AM

Boundary Information

Census Year	Boundary Filename	Internal Boundary ID
1990	Riverside Highland Water Company.kml	682
2000	Riverside Highland Water Company.kml	682
2010	Riverside Highland Water Company.kml	682
1990	Riverside Highland Water Company.kml	682
2000	Riverside Highland Water Company.kml	682
2010	Riverside Highland Water Company.kml	682
1990	Riverside Highland Water Company.kml	682
2000	Riverside Highland Water Company.kml	682
2010	Riverside Highland Water Company.kml	682

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period:

Year beginning baseline period range:

Year ending baseline period range¹: 2009

5-year baseline period

Year beginning baseline period range:

Year ending baseline period range²: 2007

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons per Connection

Year	Census Block Level	Number of Connections *	Persons per Connection
	Total Population		
1990	14,432	<input type="text"/>	4.04
1991	-	-	4.04
1992	-	-	4.04
1993	-	-	4.04
1994	-	-	4.04
1995	-	-	4.04
1996	-	-	4.04
1997	-	-	4.04
1998	-	-	4.04
1999	-	-	4.04
2000	14,476	<input type="text"/>	4.04
2001	-	-	4.04
2002	-	-	4.04
2003	-	-	4.04
2004	-	-	4.04
2005	-	-	4.04
2006	-	-	4.04
2007	-	-	4.04
2008	-	-	4.04
2009	-	-	4.04
2010	15,252	<input type="text" value="3778"/>	4.04
2011	-	-	4.04
2012	-	-	4.04
2013	-	-	4.04
2014	-	-	4.04
2015	-	-	4.04
2020	-	-	4.04 **

Population Using Persons-Per-Connection				
Year		Number of Connections *	Persons per Connection	Total Population
10 to 15 Year Baseline Population Calculations				
Year 1	2000	<input type="text"/>	4.04	
Year 2	2001	<input type="text"/>	4.04	
Year 3	2002	<input type="text"/>	4.04	
Year 4	2003	<input type="text"/>	4.04	
Year 5	2004	<input type="text"/>	4.04	
Year 6	2005	<input type="text"/>	4.04	
Year 7	2006	<input type="text"/>	4.04	
Year 8	2007	<input type="text"/>	4.04	
Year 9	2008	<input type="text"/>	4.04	
Year 10	2009	<input type="text"/>	4.04	
5 Year Baseline Population Calculations				
Year 1	2003	<input type="text"/>	4.04	
Year 2	2004	<input type="text"/>	4.04	
Year 3	2005	<input type="text"/>	4.04	
Year 4	2006	<input type="text"/>	4.04	
Year 5	2007	<input type="text"/>	4.04	
2020 Compliance Year Population Calculations				
	2020	<input type="text" value="5141"/>	4.04 **	20,755

[Hide Print Confirmation](#)

QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELo QUESTIONS / ISSUES? CONTACT THE MWELo HELP DESK

G-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610057	Riverside Highland Water Company	5,335	4,246
Total:		5,335	4,246

2-2 | Public Water Systems

STATUS:

NOTES:

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS: Published

NOTES: -

Wholesale Water Supplier Name
San Bernardino Valley Municipal Water District

3-1R | Current & Projected Population

STATUS:

NOTES:

Population Served	2020	2025	2030	2035	2040	2045
Total	20,755	23,225	24,199	25,213	25,755	26,309
Total	20,755	23,225	24,199	25,213	25,755	26,309

4-1R | Actual Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Single Family Residential	Drinking Water	2,959
Multi-Family	Multi-Family Residential	Drinking Water	226
Commercial	Commercial & Institutional	Drinking Water	151
Industrial	Industrial	Drinking Water	6
Landscape	Landscape	Drinking Water	552
Agricultural irrigation	Agricultural Irrigation	Raw Water	77
Other	Other	Drinking Water	34
Losses	Nonrevenue	Drinking Water	241
Total:			4,246

4-2R | Projected Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Single Family Residential	3,211	3,329	3,447	3,507	3,568
Multi-Family	Multi-Family Residential	241	251	261	266	271
Commercial	Commercial & Institutional	160	167	173	176	180
Industrial	Industrial	30	31	32	33	34
Landscape	Landscape	576	620	665	688	710
Agricultural irrigation	Agricultural Irrigation	65	67	70	71	72
Other	Other	5	5	5	6	6
Losses	Nonrevenue	257	268	279	285	290
Total:		4,545	4,738	4,932	5,031	5,131

4-3R | Total Gross Water Use

STATUS: Published

NOTES: -

	2020	2020	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	4,246	4,545	4,738	4,932	5,031	5,131
Recycled Water Demand* From Table 6-4R	-	-	-	-	-	-
Total Water Use:	4,246	4,545	4,738	4,932	5,031	5,131

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES:

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	130
1	2017	106
1	2018	77
1	2019	185
1	2020	241 (Estimated)

The 2020 AWWA Water Audit is not yet available. The 2020 water loss is estimated based on the difference between product

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES: -

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS:

NOTES: -

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	2000	2009	240	192
5 Year	2003	2007	234	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES: -

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
183	0	0	0	0	0	0	Yes

*All values are in Gallons per Capita per Day (GPCD)

6-1R | Groundwater Volume Pumped

STATUS:

NOTES:

Select One						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Riverside North	1,756	2,031	1,509	1,050	958
Alluvial Basin	Riverside South	81	124	158	204	248
Alluvial Basin	San Bernardino Basin (Lytle)	1,300	1,463	1,633	1,886	2,507
Alluvial Basin	San Bernardino Basin (Bunker Hill)	-	-	565	612	533
Total:		3,137	3,617	3,865	3,753	4,246

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
City of Colton	Estimated	1,184	City of Colton	Colton Water Reclamation Facility	No	No
Total:		1,184				

6-3R | Wastewater Treatment & Discharge Within Service Area in 2020

STATUS:

NOTES:

No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Plant Treats Wastewater Generated Outside the Service Area	Treatment Level	2020 Volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Total:							-	-	-	-	-

6-8R | Actual Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Riverside North	958	Drinking Water	
Groundwater (not desalinated)	Riverside South	248	Other Non-Potable Water	
Groundwater (not desalinated)	San Bernardino Basin (Lytle)	2,507	Drinking Water	
Groundwater (not desalinated)	San Bernardino Basin (Bunker Hill)	533	Drinking Water	
Total:		4,246		-

6-8DS | Source Water Desalination

STATUS:

NOTES:

Neither groundwater nor surface water are reduced in salinity prior to distribution. The supplier will not complete the table.

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Riverside North	3,176		3,399		3,622		3,736		3,850	
Groundwater (not desalinated)	Riverside South	250		250		250		250		250	
Groundwater (not desalinated)	San Bernardino Basin (Lytle)	1,800		1,800		1,800		1,800		1,800	
Groundwater (not desalinated)	San Bernardino Basin (Bunker Hill)										
Total:		5,226	-	5,449	-	5,672	-	5,786	-	5,900	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	5,226	5,449	5,672	5,786	5,900
Demand Totals From Table 4-3R	4,545	4,738	4,932	5,031	5,131
Difference:	681	711	740	755	769

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	5,749	5,994	6,239	6,365	6,490
Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:	750	782	814	830	847

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES: -

		2025	2030	2035	2040	2045
First Year	Supply Totals	5,749	5,994	6,239	6,365	6,490
	Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:		750	782	814	830	847
Second Year	Supply Totals	5,749	5,994	6,239	6,365	6,490
	Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:		750	782	814	830	847
Third Year	Supply Totals	5,749	5,994	6,239	6,365	6,490
	Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:		750	782	814	830	847
Fourth Year	Supply Totals	5,749	5,994	6,239	6,365	6,490
	Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:		750	782	814	830	847
Fifth Year	Supply Totals	5,749	5,994	6,239	6,365	6,490
	Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:		750	782	814	830	847
Sixth Year	Supply Totals	5,749	5,994	6,239	6,365	6,490
	Demand Totals	4,999	5,212	5,425	5,534	5,644
Difference:		750	782	814	830	847

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	4,736
	Total Supplies	5,447
	Surplus/Shortfall without WSCP Action	711
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	711
Resulting Percent Use Reduction from WSCP Action	0%	
2022	Gross Water Use	4,802
	Total Supplies	5,522
	Surplus/Shortfall without WSCP Action	720
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	720
Resulting Percent Use Reduction from WSCP Action	0%	
2023	Gross Water Use	4,868
	Total Supplies	5,598
	Surplus/Shortfall without WSCP Action	730
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	730
Resulting Percent Use Reduction from WSCP Action	0%	
2024	Gross Water Use	4,933
	Total Supplies	5,673
	Surplus/Shortfall without WSCP Action	740
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	740
Resulting Percent Use Reduction from WSCP Action	0%	
2025	Gross Water Use	4,999
	Total Supplies	5,749
	Surplus/Shortfall without WSCP Action	750
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	750
Resulting Percent Use Reduction from WSCP Action	0%	

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES: -

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Normal Condition (RHWC Stage 1) - During times of normal supply, it is recommended that water conservation be practiced within the home or business and prevent the waste of unreasonable use of water.
2	Up to 20%	Water Alert Condition (RHWC Stage 2) - RHWC's Stage 2 has more prohibitions, in addition to the prohibitions contained in RHWC's Stage 1.
3	Up to 30%	Water Warning Condition (RHWC Stage 3) - RHWC's Stage 3 has more prohibitions, in addition to the prohibitions and actions under RHWC's Stage 2.
4	Up to 40%	Water Emergency Condition (RHWC Stage 4) - Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses.
5	Up to 50%	Water Emergency Condition (RHWC Stage 4) - Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses.
6	>50%	Water Emergency Condition (RHWC Stage 4) - Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses.

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

8-2 | Demand Reduction Actions

STATUS:

NOTES:

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Water use which results in flooding or run-off should be prevented and controlled.	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Leaking plumbing fixtures shall be repaired in a timely manner so as to not waste water.	Yes
1	Other - Require automatic shut of hoses	0-1%	The use of sprinklers for any type of irrigation during high winds is prohibited.	Yes

	Water Features - Restrict water use for decorative water features, such as 1 fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless the water is part of a recycling system.	Yes
	2 CII - Restaurants may only serve water upon request	0-1%	All restaurants prohibited from serving water to their customers except upon specific request.	Yes
	2 Landscape - Limit landscape irrigation to specific times	0-5%	Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand held devices or drip irrigation	Yes
	2 Landscape - Other landscape restriction or prohibition	0-5%	Irrigation limited to crops presently planted.	Yes

	2 Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	School grounds shall prevent run-off from irrigation activities. All publicly owned lawns and landscape shall prevent run-off from irrigation activities. All residential lawn watering shall prevent run-off from irrigation activities.	Yes
	2 Other - Prohibit use of potable water for washing hard surfaces	0-1%	There shall be no washing of driveways or sidewalks.	Yes

	2 Other	0-1%	The washing of automobiles, trucks, trailers, boats, and other mobile equipment is prohibited unless done with a hand held device equipped with an automatic shut off trigger nozzle. This does not apply to commercial car washes utilizing a recycling system or when the health and safety of the public would necessitate.	Yes
	3 Landscape - Limit landscape irrigation to specific days	0-5%	All residential lawn watering to be performed on a Company approved schedule for hours and days of the week.	Yes

3	Landscape - Limit landscape irrigation to specific times	0-5%	All agricultural water users shall irrigate only at time approved by the company.	Yes
3	Landscape - Limit landscape irrigation to specific times	0-35%	Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand held devices or drip irrigation. Consumption shall be reduced by a minimum of 35%. School grounds to be watered on a Company approved schedule for hours and days of the week. Consumption shall be reduced by a minimum of 35%. All publicly owned lawns, landscape watering to be performed on a Company approved	Yes

	3 Other water feature or swimming pool restriction	0-1%	Swimming pools and fountains are not to be refilled after draining.	Yes
	4 CII - Other CII restriction or prohibition	0-1%	No construction water use to be allowed, construction meters to be locked off or removed.	Yes
	4 Landscape - Prohibit all landscape irrigation	10-30%	No lawn or landscape water will be allowed.	Yes
All	Expand Public Information Campaign	0-20%		No

8-3R | Supply Augmentation & Other Actions

STATUS: Published

NOTES: -

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
4	Other purchases	0-1000	Emergency Inter-Ties with City of San Bernardino
4	Other purchases	0-1000	Emergency Inter-Ties with City of Rialto
4	Other purchases	0-1000	Emergency Inter-Ties with City of Colton

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of Grand Terrace	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Riverside County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	Riverside Highland Water Company	Reporting Period Start Date	1/1/2020
Water Delivery Product	Retail Potable Deliveries	Reporting Period End Date	12/30/2020
	Urban Water Supplier Operational Control		
	Sum of all Water Management Process	Non-Consequential Hydropower	
	Total Utility	Hydropower	Net Utility
Volume of Water Entering Process (AF)	4246	0	4246
Energy Consumed (kWh)	3406430	0	3406430
Energy Intensity (kWh/AF)	802.3	0.0	802.3
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy	kWh
Data Quality Narrative	Total energy consumed in 2020 was quantified through meters for well production.		
Water Supply Narrative	RHWC extracts potable water from the San Bernardino Basin (SBB, including the Bunker Hill Basin and Lytle Basin) and the Riverside North Basin.		

G-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	3,935	Acre Feet (AF)
	2008 total volume of delivered recycled water	0	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	0	Percent
	Number of years in baseline period ^{1, 2}	10	Years
	Year beginning baseline period range	2000	
	Year ending baseline period range ³	2009	
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	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES: -

Method for Population Estimates	
No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
No	3. DWR Population Tool
Yes	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES: -

Year		Population
10 to 15 Year Baseline Population		
Year 1	2000	14,476
Year 2	2001	14,552
Year 3	2002	14,628
Year 4	2003	14,705
Year 5	2004	14,782
Year 6	2005	14,859
Year 7	2006	14,937
Year 8	2007	15,015
Year 9	2008	15,094
Year 10	2009	15,173
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	14,705
Year 2	2004	14,782
Year 3	2005	14,859
Year 4	2006	14,937
Year 5	2007	15,015
2020 Compliance Year Population		
2020		20,755

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	2,000	5,170			0	1,176	-	3,994
Year 2	2,001	4,655			0	839	-	3,816
Year 3	2,002	5,794			0	1,022	-	4,772
Year 4	2,003	4,630			0	708	-	3,922
Year 5	2,004	4,545			0	501	-	4,044
Year 6	2,005	4,414			0	691	-	3,723
Year 7	2,006	3,847			0	163	-	3,684
Year 8	2,007	4,218			0	96	-	4,122
Year 9	2,008	3,935			0	64	-	3,871
Year 10	2,009	3,916			0	91	-	3,825
Year 11	0	0			0		-	0
Year 12	0	0			0		-	0
Year 13	0	0			0		-	0
Year 14	0	0			0		-	0
Year 15	0	0			0		-	0
10 - 15 year baseline average gross water use:								3,977
5 Year Baseline - Gross Water Use								
Year 1	2,003	4,630			0	708	-	3,922
Year 2	2,004	4,545			0	501	-	4,044
Year 3	2,005	4,414			0	691	-	3,723
Year 4	2,006	3,847			0	163	-	3,684
Year 5	2,007	4,218			0	96	-	4,122
5 year baseline average gross water use:								3,899
2020 Compliance Year - Gross Water Use								
2020		4,246			0		-	4,246

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source			
Name of Source:		Lytle Creek, Bunker Hill, Rialto-Colton, Riverside North	
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System			
Year 1	2,000	5,170	5,170
Year 2	2,001	4,655	4,655
Year 3	2,002	5,794	5,794
Year 4	2,003	4,630	4,630
Year 5	2,004	4,545	4,545
Year 6	2,005	4,414	4,414
Year 7	2,006	3,847	3,847
Year 8	2,007	4,218	4,218
Year 9	2,008	3,935	3,935
Year 10	2,009	3,916	3,916
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0
5 Year Baseline - Water into Distribution System			
Year 1	2,003	4,630	4,630
Year 2	2,004	4,545	4,545
Year 3	2,005	4,414	4,414
Year 4	2,006	3,847	3,847
Year 5	2,007	4,218	4,218
2020 Compliance Year - Water into Distribution System			
2020		4,246	4,246

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3		Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	2000	14,476	3,994	246
Year 2	2001	14,552	3,816	234
Year 3	2002	14,628	4,772	291
Year 4	2003	14,705	3,922	238
Year 5	2004	14,782	4,044	244
Year 6	2005	14,859	3,723	224
Year 7	2006	14,937	3,684	220
Year 8	2007	15,015	4,122	245
Year 9	2008	15,094	3,871	229
Year 10	2009	15,173	3,825	225
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:				240
5 Year Baseline GPCD				
Year 1	2003	14,705	3,922	238
Year 2	2004	14,782	4,044	244
Year 3	2005	14,859	3,723	224
Year 4	2006	14,937	3,684	220
Year 5	2007	15,015	4,122	245
5 Year Average Baseline GPCD:				234
2020 Compliance Year GPCD				
2020		20,755	4,246	183

SB X7-6 | Gallons per Capita per Day

STATUS: Published

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	240
5 Year Baseline GPCD	234
2020 Compliance Year GPCD	183

SB X7-7 | 2020 Target Method

STATUS:

NOTES: -

Select Only One	
Yes	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
No	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
240	192

SB X7-7E | 2020 Target Method 3

Select All that Apply	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets
		North Coast	137
		North Lahontan	173
		Sacramento River	176
		San Francisco Bay	131
		San Joaquin River	174
		Central Coast	123
		Tulare Lake	188
		South Lahontan	170
		South Coast	149
		Colorado River	211
Target (If more than one region is selected, this value is calculated.)			

SB X7-7F | Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD From SB X7-5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
234	223	192	192
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD. ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES: -

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
192	240	216

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
183	192				0	183	183	YES

G-8: AWWA Water Audits

Click to access definition
 Click to add a comment

Water Audit Report for: **Riverside Highland Water Company (3610057)**
 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

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

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

WATER SUPPLIED

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

Volume from own sources:	+ ?	5	3,056.200	acre-ft/yr			
Water imported:	+ ?	n/a	0.000	acre-ft/yr	+ ?	3	<input type="radio"/> <input type="radio"/>
Water exported:	+ ?	n/a	0.000	acre-ft/yr	+ ?		<input type="radio"/> <input type="radio"/>

Master Meter and Supply Error Adjustments

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

WATER SUPPLIED: 3,056.200 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	4	2,918.630	acre-ft/yr	+ ?	3	<input type="radio"/> <input type="radio"/>
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr	+ ?		<input type="radio"/> <input type="radio"/>
Unbilled metered:	+ ?	n/a	0.000	acre-ft/yr	+ ?		<input type="radio"/> <input type="radio"/>
Unbilled unmetered:	+ ?	9	7.303	acre-ft/yr	+ ?		<input type="radio"/> <input type="radio"/>

FALSE

AUTHORIZED CONSUMPTION: 2,925.933 acre-ft/yr

Click here: for help using option buttons below

Pcnt: 1.25% Value: 7.303 acre-ft/yr

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption) 130.267 acre-ft/yr

Apparent Losses

Unauthorized consumption: 7.641 acre-ft/yr

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

Customer metering inaccuracies: 29.481 acre-ft/yr

Systematic data handling errors: 7.297 acre-ft/yr

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

Apparent Losses: 44.418 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 85.849 acre-ft/yr

WATER LOSSES: 130.267 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 137.570 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: 6 miles

Number of active AND inactive service connections: 9

Service connection density: 57 conn./mile main

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

COST DATA

Total annual cost of operating water system: 10 \$3,277,505 /Year

Customer retail unit cost (applied to Apparent Losses): 9 \$1.37 /\$100 cubic feet (ccf)

Variable production cost (applied to Real Losses): 5 \$107.03 /\$acre-ft Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 57 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: **Riverside Highland Water Company (3610057)**
 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

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

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

WATER SUPPLIED

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

Volume from own sources:	+	?	2	3,493.700	acre-ft/yr
Water imported:	+	?	n/a	0.000	acre-ft/yr
Water exported:	+	?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
+	?	2
+	?	
+	?	

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

WATER SUPPLIED: 3,493.700 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	8	3,344.109	acre-ft/yr
Billed unmetered:	+	?	n/a	0.000	acre-ft/yr
Unbilled metered:	+	?	n/a	0.000	acre-ft/yr
Unbilled unmetered:	+	?		43.671	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 3,387.780 acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt: 1.25% Value: acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

Pcnt: 0.25% Value: acre-ft/yr

1.00% Value: acre-ft/yr

0.25% Value: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

105.920 acre-ft/yr

Apparent Losses

Unauthorized consumption: 8.734 acre-ft/yr

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

Customer metering inaccuracies: 33.779 acre-ft/yr
 Systematic data handling errors: 8.360 acre-ft/yr

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

Apparent Losses: 50.873 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 55.046 acre-ft/yr

WATER LOSSES: 105.920 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 149.591 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: 6 77.0 miles
 Number of active AND inactive service connections: 8 4,527
 Service connection density: 59 conn./mile main

Are customer meters typically located at the curbside 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 70.0 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$3,464,665	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	7	\$68.16	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	5	\$107.57	\$/acre-ft <input type="checkbox"/> 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: Variable production cost (applied to Real Losses)
- 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: Riverside Highland Water Company (3610057)
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

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

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

WATER SUPPLIED

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

Volume from own sources:	+ ?	3	3,219.000	acre-ft/yr
Water imported:	+ ?	3	565.000	acre-ft/yr
Water exported:	+ ?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	
+ ? 3 0.00%	<input checked="" type="radio"/> <input type="radio"/>	acre-ft/yr
+ ? 3 0.00%	<input checked="" type="radio"/> <input type="radio"/>	acre-ft/yr
+ ? 3	<input checked="" type="radio"/> <input type="radio"/>	acre-ft/yr

WATER SUPPLIED: 3,784.000 acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	8	3,659.664	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled unmetered:	+ ?		47.300	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 3,706.964 acre-ft/yr

Click here: ? for help using option buttons below
Pcnt: 1.25% Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

77.036 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? 9.460 acre-ft/yr

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

Customer metering inaccuracies:	+ ?	3	36.966	acre-ft/yr
Systematic data handling errors:	+ ?		9.149	acre-ft/yr

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

Apparent Losses: 55.575 acre-ft/yr

Pcnt: 0.25% Value: acre-ft/yr

1.00% 0.25% Value: acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **21.461** acre-ft/yr

WATER LOSSES: 77.036 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 124.336 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	6	80.0	miles
Number of <u>active AND inactive</u> service connections:	+ ?	8	4,868	
Service connection density:	?		61	conn./mile main

Are customer meters typically located at the curbstop or property line? No 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 76.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$3,464,665	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	7	\$1.27	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	5	\$122.10	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 52 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: Variable production cost (applied to Real Losses)

G-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact Riverside Highland Water Company to obtain the most current version of the WSCP.

Riverside Highland Water Company Water Shortage Contingency Plan

JUNE 2021

Riverside Highland Water Company



RIVERSIDE HIGHLAND WATER COMPANY



Water Shortage Contingency Plan

Riverside Highland Water
Company

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
RHWC	Riverside Highland Water Company
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

Riverside Highland Water Company

This Water Shortage Contingency Plan is a strategic plan that the Riverside Highland Water Company uses to prepare for and respond to water shortages.

The Water Shortage Contingency Plan (WSCP) is a strategic plan that Riverside Highland Water Company (RHWC) uses to prepare for and respond to foreseeable and unforeseeable water shortages. A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that RHWC will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help RHWC maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with RHWC's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes RHWC's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes water shortage stages to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant RHWC the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if additional shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, RHWC completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. RHWC is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, RHWC implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, RHWC's water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, RHWC will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, RHWC must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to RHWC at the time of analysis and can be update or revised at any time if circumstances change.

RHWC will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **General Manager**
- **Administrative Manager**
- **Productions Manager**
- **Operations Manager**
- **Finance**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	General Manager and/or Production Manager
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	The BTAC evaluates change in groundwater storage each year and discusses allocation of available supplies. The SBBA, the Rialto-Colton Basin, and the Riverside North Basin are sustainably managed to provide long term supply reliability and is not anticipated to be impacted in dry years. In the unlikely event that local supplies are reduced, RHWC will coordinate with the BTAC to identify anticipated supplies.	General Manager and/or Production Manager
JAN - FEB	Consider potential constraints that may impact supply delivery	Identify any known regional or RHWC infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity. Identify any facilities out of service due to water quality problems, equipment failure, etc. that may impact normal water deliveries. Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs.	General Manager and/or Production Manager
FEB	Convene WSCP Team to conduct Annual Assessment	Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response stage and actions are recommended to reduce/eliminate the shortage. Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response actions are needed to comply with the State mandate.	WSCP Team

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JUNE	Board of Directors	If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the RHWC Board of Directors, including the recommended shortage stage and response actions. The Board of Directors may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.	General Manager Board of Directors
ON-GOING	Implement WSCP actions, if needed	Relevant members of RHWC staff will implement shortage response actions associated with the declared water shortage stage	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

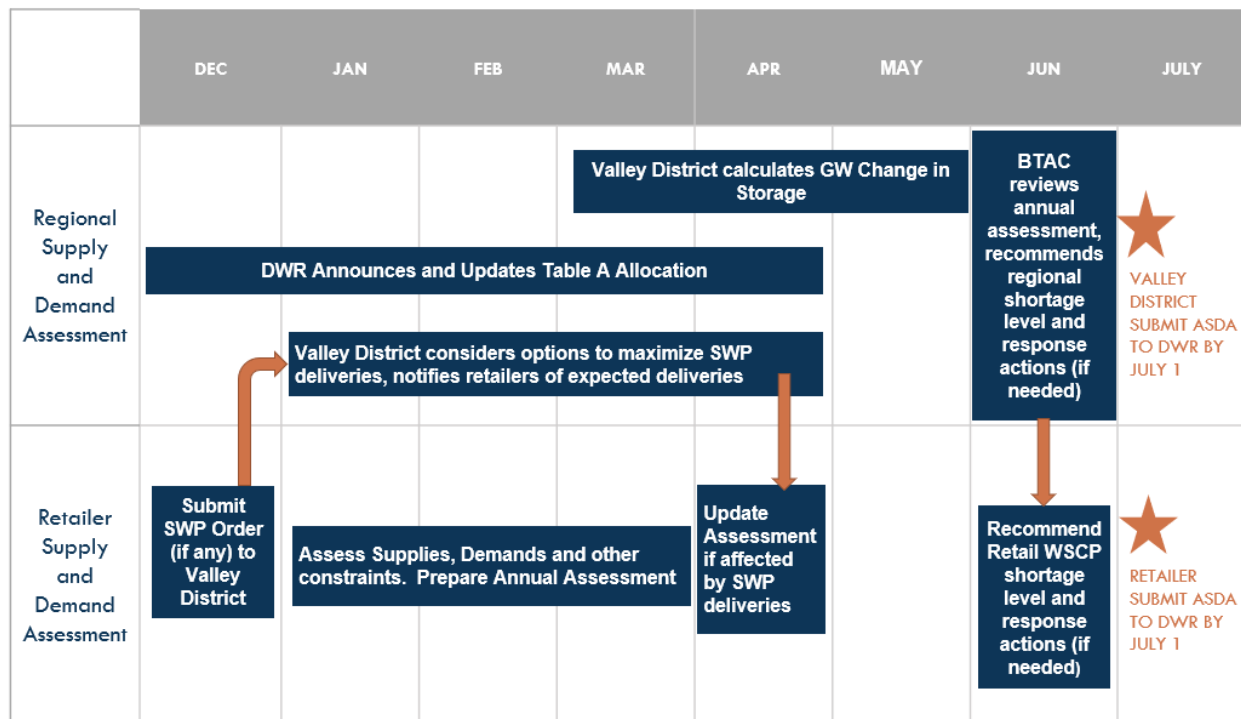


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

With the exception of a catastrophic failure of infrastructure, RHWC does not foresee imposing a water shortage stage except under the State’s direction, as occurred in 2014. If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that RHWC may implement.

RHWC uses four (4) shortage stages to identify and respond to water shortage emergencies. At a minimum, RHWC encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I: Normal Conditions

During times of normal supply, it is recommended that water conservation be practiced within the home or business and prevent the waste of unreasonable use of water.

Stage II: Water Alert

Stage 2 has more prohibitions, in addition to the prohibitions contained in Stage 1.

Stage III: Water Warning

Stage 3 has more prohibitions, in addition to the prohibitions and actions under Stage 2.

Stage IV: Water Emergency

Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses.

The CWC outlines six standard water shortage stages that correspond to a gap in supply compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. RHWC is maintaining the current four shortage stages for this WSCP. A crosswalk defines how RHWC’s current water shortage stages will align with the DWR’s standardized 6 stages of shortage. A visual representation of this alignment is shown in **Figure 2**.

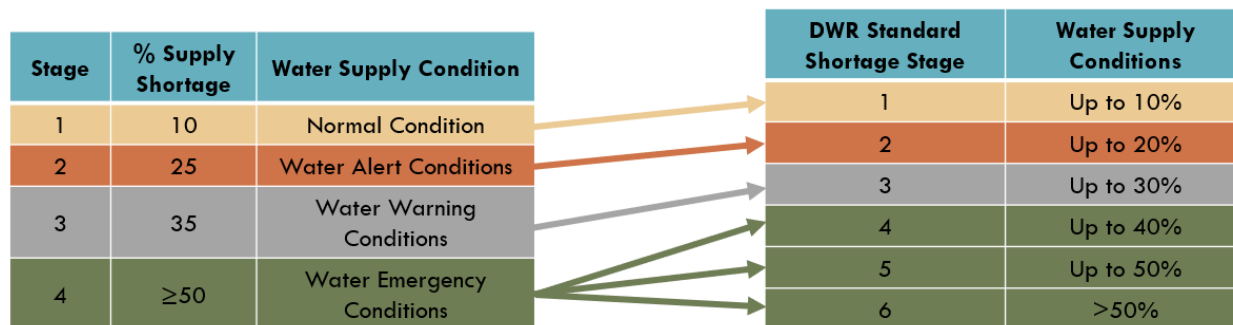


Figure 2. Crosswalk to DWR Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Condition (RHWC Stage 1)
2	Up to 20%	Water Alert Condition (RHWC Stage 2)
3	Up to 30%	Water Warning Condition (RHWC Stage 3)
4	Up to 40%	Water Emergency Condition (RHWC Stage 4)
5	Up to 50%	Water Emergency Condition (RHWC Stage 4)
6	>50%	Water Emergency Condition (RHWC Stage 4)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that must be implemented or considered for each stage to minimize social and economic impacts to the community.

In accordance with CWC 10632(b) RHWC analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions RHWC can take in the event of a water shortage condition. RHWC currently maintains interconnections with the City of San Bernardino, City of Colton and the City of Rialto. During water shortage emergencies, RHWC may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
4	Other purchases	0-1000	Emergency Inter-Ties with City of San Bernardino
4	Other purchases	0-1000	Emergency Inter-Ties with City of Rialto
4	Other purchases	0-1000	Emergency Inter-Ties with City of Colton

4.2 Demand Reduction

To balance supply and demand, RHWC has a water rate structure to promote water efficiency as well as end use prohibitions that may be implemented to reduce user demands. **Table 4** summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	Water use which results in flooding or run-off should be prevented and controlled.	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Leaking plumbing fixtures shall be repaired in a timely manner so as to not waste water.	Yes
1	Other - Require automatic shut of hoses	0-1%	The use of sprinklers for any type of irrigation during high winds is prohibited.	Yes
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless the water is part of a recycling system.	Yes
2	CII - Restaurants may only serve water upon request	0-1%	All restaurants prohibited from serving water to their customers except upon specific request.	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand held devices or drip irrigation	Yes
2	Landscape - Other landscape restriction or prohibition	0-5%	Irrigation limited to crops presently planted.	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	School grounds shall prevent run-off from irrigation activities. All publicly owned lawns and landscape shall prevent run-off from irrigation activities. All residential lawn watering shall prevent run-off from irrigation activities.	Yes
2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	There shall be no washing of driveways or sidewalks.	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	The washing of automobiles, trucks, trailers, boats, and other mobile equipment is prohibited unless done with a hand held device equipped with an automatic shut off trigger nozzle. This does not apply to commercial car washes utilizing a recycling system or when the health and safety of the public would necessitate.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-5%	All residential lawn watering to be performed on a Company approved schedule for hours and days of the week.	Yes
3	Landscape - Limit landscape irrigation to specific times	0-5%	All agricultural water users shall irrigate only at time approved by the company.	Yes
3	Landscape - Limit landscape irrigation to specific times	0-35%	Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand held devices or drip irrigation. Consumption shall be reduced by a minimum of 35%. School grounds to be watered on a Company approved schedule for hours and days of the week. Consumption shall be reduced by a minimum of 35%. All publicly owned lawns, landscape watering to be performed on a Company approved schedule for hours and days of the week. Consumption shall be reduced by a minimum of 35%.	Yes
3	Other water feature or swimming pool restriction	0-1%	Swimming pools and fountains are not to be refilled after draining.	Yes
4	CII - Other CII restriction or prohibition	0-1%	No construction water use to be allowed, construction meters to be locked off or removed.	Yes
4	Landscape - Prohibit all landscape irrigation	10-30%	No lawn or landscape water will be allowed.	Yes
All	Expand Public Information Campaign	0-20%		No

4.3 Operational Changes and Additional Mandatory Restrictions

There are no operational changes or additional mandatory restrictions beyond the actions listed in [Table 3](#) and [Table 4](#) implemented in response to the declaration of a shortage response stage.

4.4 Emergency Response Plan

In 2021, RHWC will complete a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America's Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of RHWC's infrastructure. The RRA will assess RHWC's water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of RHWC's system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential and for use by RHWC's staff only. However, RHWC can confirm that these plans meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to RHWC's infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, RHWC owns ten storage reservoirs which hold 13 million gallons. This would be sufficient water to meet health and safety requirements of 50 gallons per day per capita for the 5,335 customers for a limited number of days assuming zero non-residential use.

RHWC also has interconnections with the Cities of Colton, Rialto and San Bernardino for emergency supplies and is prepared to purchase emergency water supplies while repairs or other remedial actions are underway.

RHWC has portable back-up generators that can be used in the event of an area wide power outage. The generators can be located on both wells and booster stations throughout the system to continue water production. In addition to the portable generators for wells and pumps, RHWC has two stationary generators at their corporate facility to maintain operations and will be installing another stationary generator at a Booster pump that has experienced outages in 2021.

RHWC may also implement its four-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 4), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In addition to the AWIA RRA and ERP which will specifically address seismic risk and mitigation plans, the Riverside Highland Water Company has an Emergency Preparedness and Response Procedure that includes guidelines for response actions if an emergency due to an earthquake were to occur.

4.6 Shortage Response Action Effectiveness

RHWC has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#) when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

RHWC prioritizes effective communication, especially in times of a water shortage emergency. RHWC routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, and direct mail pieces to newspaper and bus shelter advertisements, news releases, social media outreach, and website content. RHWC continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

RHWC could implement the following mechanisms to enforce the water use prohibitions:

1. **First Violation** – issuance of written notice of violation to the water user, or a door tag placed on the customer’s door.
2. **Second Violation** – a fine or surcharge of \$100.
3. **Third Violation** – a fine or surcharge of \$200.
4. **Fourth Violation** – a fine or surcharge of \$500 and/or the installation of a flow restricting device on the water meter at the Board of Directors discretion.

7.0 Legal Authorities

In 1987, RHWC started and maintained various funds whereby it can respond to emergencies without waiting for funds from outside sources. RHWC has approved a living document known as the “Emergency Preparedness and Response Procedure” in March, 1994 and most recently revised the document in April 2020 and adopted a “Water Shortage Contingency Plan” in July of 2014 which is included in [Attachment 1](#).

7.1 Water Shortage Emergency Declaration

In accordance with CWC Section Division 1, Section 350 – RHWC shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, RHWC shall coordinate with any the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

During stages 2 through 4 of the RHWC WSCP, water consumption will decrease based on each individual stage and the amount of reduction goal achieved. The impacts of these reductions will result in a reduction in water sales revenues and a reduction of water production expenditures. Additional costs may also be incurred to monitor and enforce response actions to ensure RHWC customers comply with CWC Chapter 3.3 (Excessive Residential Water Use During Drought). The incurred cost may vary depending on the shortage stage and duration of the water shortage emergency.

In order to mitigate the financial impacts of a water shortage, RHWC maintains various emergency funds including an Operating Budget Fund which is 120 days of expenses and a Rate Stabilization Fund which is 15 % of the annual operating budget for loss of income including drought restrictions. These funds could be used to stabilize water rates during periods of water shortage or disasters affecting the water supply. Even with these reserves, rate increases may be necessary during a prolonged water shortage. RHWC has increased its monthly meter charge and assessments to better balance its fixed expenses/fixed income versus its variable revenue/expenses.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. RHWC will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to RHWC's Board for discretionary approval. Once discretionary approval has been granted, RHWC will hold a public hearing, obtain any comments and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

RHWC adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in June 2021 and a public hearing was held on **June 24, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The RHWC Board of Directors adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 24, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on Riverside Highland Water Company web site.

If RHWC identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

The WSCP will be presented for adoption to RHWC's Board at a public Board of Directors meeting. The Board may submit any comments prior to approval and adoption. The WSCP will be submitted to DWR at the same time as the 2020 Urban Water Management Plan. The WSCP will be made available to all staff, customers, and any affected cities, counties, or other members of the public at the RHWC office and online.

References

California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.

Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.

United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: Riverside Highland Water Company's Water Shortage Contingency Plan



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MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS

July 24, 2014

Present: Directors Kidd, McKeever, Larkin, Best, McNaboe, Saunder and Seulemezian;
Also General Manager Hough, Distribution Superintendent Gudgeon

Absent: Directors Baker and McHugh, Administrative Sec/Treas Gimple

The regular meeting of the Board of Directors of Riverside Highland Water Company, held in the Boardroom at 12374 Michigan Street, Grand Terrace, CA, was convened by President McKeever at 9:00 a.m., July 24, 2014.

...
...
...

The Riverside Highland Water Company Water Shortage Contingency Plan was reviewed and discussed. The motion was made and seconded (Seulemezian/McNaboe) to approve the plan. Passed



Riverside Highland Water Company

Water Shortage Contingency Plan

9.0 Water Shortage Contingency Plan

Water supplies may be interrupted or reduced significantly in a number of ways, such as a drought which limits supplies, an earthquake which damages delivery or storage facilities, or a regional power outage. This section focuses on water shortage contingency planning for Riverside Highland Water Company.

**Table 9-1
SUMMARY OF CURRENT AND PLANNED WATER SUPPLIES (AF)**

Water Supply Source	Supply (AF)					
	2010	2015	2020	2025	2030	2035
Existing						
Wholesale/Imported	0	0	0	0	0	0
Groundwater	13,390	13,390	13,390	13,390	13,390	13,390
Local Surface Water	0	0	0	0	0	0
Recycled Water	0	0	0	0	0	0
Transfers/Exchanges	1,000	1,000	1,000	1,000	1,000	1,000
Groundwater Banking	0	0	0	0	0	0
Total Existing Supplies	14,390	14,390	14,390	14,390	14,390	14,390
Planned						
Wholesale/Imported	0	0	0	0	0	0
Groundwater	0	1,200	2,400	3,600	6,000	6,000
Local Surface Water	0	0	0	0	0	0
Recycled Water	0	0	0	0	0	0
Transfers/Exchanges	0	0	0	0	0	0
Groundwater Banking	0	0	0	0	0	0
Total Planned Supplies	0	1,200	2,400	3,600	6,000	6,000
Total Existing and Planned Supplies	0	15,590	56,000	16,790	17,990	20,390



9.1 Coordinated Planning

Disasters, such as earthquakes, can and will occur without notice. In order to minimize confusion and service interruptions, the Company has developed an emergency plan. This emergency plan provides guidelines for actions to be undertaken by personnel during an emergency.

In an emergency, personnel are required to meet at a reporting location for the assignment of duties. Those personnel who are unable to report because of downed structures or other obstacles are authorized by the Company to offer their services to local water providers if those providers are also experiencing an emergency. Once damages have been identified, the plan provides for the dispatch of repair personnel. In cases where water service is diminished due to such emergencies, the Company has the option of notifying the public through press releases, Company web site, flyers, and telephone depending on the severity of the emergency.

9.2 Stages of Action to Respond to Water Shortages

In order to minimize the social and economic impact of water shortages, the Company will manage water supplies prudently. As the shortages become evident to the General Manager, the General Manager will stay in contact with the Board of Directors. Shortages may evoke a stage at any time. The four-stage rationing plan to be undertaken by the Company in response to water supply shortages is listed in table 9-2 and is described in the "Water Conservation Provisions of stages 2, 3 and 4.

**Table 9-2
WATER CONSERVATION PROVISIONS**

Stage	Percent Shortage	Conservation Measures	Expected Overall Reduction
1	Normal 10% to	Voluntary	10%
2	25% 25% to	Voluntary/Mandatory	25%
3	35%	Mandatory	35%
4	35% to 50%	Mandatory	50%+



9.3 Stage 1 – Normal Conditions

During times of normal supply, it is recommended that water conservation be practiced within the home or business and prevent the waste of unreasonable use of water. These include the following:

- No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless the water is part of a recycling system.
- Leaking plumbing fixtures shall be repaired in a timely manner so as to not waste water.
- Water use which results in flooding or run-off should be prevented and controlled.
- The use of sprinklers for any type of irrigation during high winds is prohibited.

9.4 Stage 2 – Water Alert Conditions

In addition to the prohibitions contained in Stage 1, Stage 2 has the following savings:

- The washing of automobiles, trucks, trailers, boats, and other mobile equipment is prohibited unless done with a hand held device equipped with an automatic shut off trigger nozzle. This does not apply to commercial car washes utilizing a recycling system or when the health and safety of the public would necessitate.
- Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand held devices or drip irrigation.
- School grounds shall prevent run-off from irrigation activities
- All publicly owned lawns and landscape shall prevent run-off from irrigation activities.
- All residential lawn watering shall prevent run-off from irrigation activities.
- There shall be no washing of driveways or sidewalks.
- Irrigation limited to crops presently planted.
- All restaurants prohibited from serving water to their customers except upon specific request.

9.5 Stage 3 – Water Warning Conditions

Stage 3 has the following aspects, in addition to the prohibitions and actions under Stage 2:

- Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand held devices or drip irrigation. Consumption shall be reduced by a minimum of 35%.
- School grounds to be watered on a Company approved schedule for hours and days of the week. Consumption shall be reduced by a minimum of 35%.
- All publicly owned lawns, landscape watering to be performed on a Company approved schedule for hours and days of the week. Consumption shall be reduced by a minimum of 35%
- All residential lawn watering to be performed on a Company approved schedule for hours and days of the week.



- All agricultural water users shall irrigate only at time approved by the company.
- Swimming pools and fountains are not to be refilled after draining.

9.6 Stage 4 – Water Emergency Conditions

Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses. No lawn or landscape water will be allowed. No construction water use to be allowed, construction meters to be locked off or removed.

9.7 Actions to Prepare for Catastrophic Interruption

Extended multi-week supply shortages due to natural disasters or accidents which will damage all water sources are unlikely. The Company's 7 storage reservoirs hold 8 million gallons, which is sufficient water to meet health and safety requirements of 50 gallons per day per capita for the 12,000 customers for 13 days. This assumes zero non-residential use.

The Company also has interconnections with four other agencies for emergency supplies.

The Company has portable back-up generators that can be used in the event of an area wide power outage. These generators can be located on both wells and booster stations throughout the system to continue water production.

9.8 Penalties and Consumption Reduction Methods

Penalties for noncompliance can range from warning notices to monetary surcharges or fines. For extreme cases, the placement of flow-restricting devices or the complete shutoff of the water service may be necessary.

9.9. Violations

- First Violation – issuance of written notice of violation to the water user.
- Second Violation – a fine or surcharge of \$100 is imposed on the water account.
- Third Violation – a fine or surcharge of \$200 is imposed on the water account.
- Fourth Violation – a fine or surcharge of \$500 and/or the installation of a flow restricting device on the water meter at the Board of Directors discretion.

9.10 Financial Impacts of Actions During Shortages

During stages 2 through 4 of the Company's Water Shortage Contingency Plan, water consumption will decrease based on each individual stage and the amount of reduction goal achieved. The impacts of these reductions will result in a reduction in water sales revenues and a reduction of water production expenditures. In order to mitigate the financial impacts of a water shortage, the Company maintains sufficient funds within their account. These funds could be used to stabilize



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water rates during periods of water shortage or disasters affecting the water supply. Even with these reserves, rate increases may be necessary during a prolonged water shortage.

9.11 Mechanism to Determine Reductions in Water Use

The mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency plan will be the review of the daily production figures and the bi-monthly water meter readings. The General Manager or his designee shall access all available water supply data and shall make a report of his findings to the Board of Directors at the next regular meeting or at a special meeting called for that purpose. The Board of Directors at that time will determine and declare which of the four previously discussed conditions the Company's water supply is in and the extent of water conservation required to prudently plan for and supply water to the Company's customers.

Attachment 2: Adoption Resolution

RESOLUTION 2021-2

RESOLUTION OF THE BOARD OF DIRECTORS OF RIVERSIDE
HIGHLAND WATER COMPANY ADOPTING THE WATER
SHORTAGE CONTINGENCY PLAN

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a water shortage contingency plan (WSCP); and

WHEREAS, Riverside Highland Water Company meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, The Riverside Highland Water Company has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the Riverside Highland Water Company's previously prepared WSCP in 2014; and

WHEREAS, in accordance with the UWMP Act, the Riverside Highland Water Company has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and

relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the Riverside Highland Water Company's WSCP was published within the jurisdiction of the Riverside Highland Water Company on June 9, 2021 and June 16, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 24, 2021 at 9:00 am, or soon thereafter, by virtual meeting in the Board Room of the Riverside Highland Water Company office 12374 Michigan Street, Grand Terrace, CA 92313 and via ZOOM in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, the Riverside Highland Water Company, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within Riverside Highland Water Company's service area with regard to the preparation of the WSCP; and

WHEREAS, the Board of Directors has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

WHEREAS, the Board of Directors desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of the Riverside Highland Water Company hereby resolve as follows:

1. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Board of Directors

2. The General Manager is hereby authorized and directed to include a copy of this Resolution in Riverside Highland Water Company's WSCP;

3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;

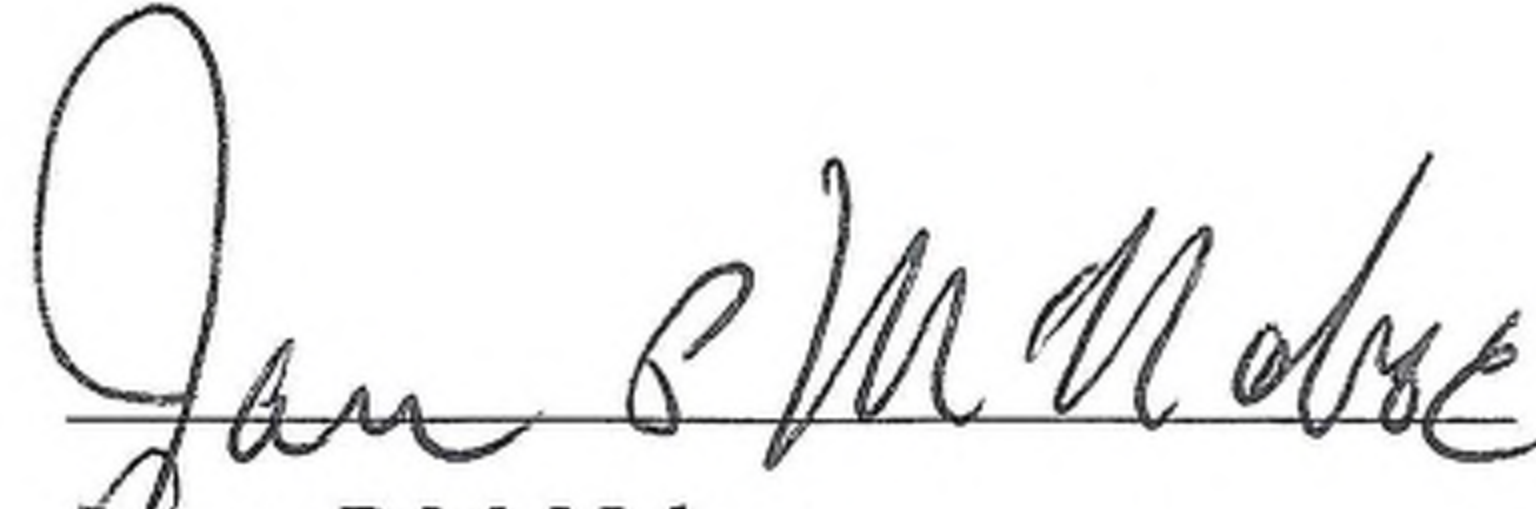
4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or county within which the Riverside Highland Water Company provides water supplies no later than thirty (30) days after this adoption date;

5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at The Riverside Highland Water Company's offices during normal business hours and on The Riverside Highland Water Company's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;

6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which The Riverside Highland Water Company provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;

7. The General Manager is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the Board of Directors regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

ADOPTED, this 24th day of June, 2021.


James P McNaboe
President

June 24, 2021

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of Resolution 2021-2 adopted by the Board of Directors of Riverside Highland Water Company at its regular meeting held on June 24, 2021.



Donald Larkin Jr.
Secretary-Treasurer

H

2020 IRUWMP Part 4
San Bernardino Municipal
Water Department
Appendix H



H-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 8 Part 1 Chapter 3
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	Part 2 Chapter 8 Executive Summary
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	Part 2 Chapter 8
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	Part 1 Chapter 1
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	Part 4 Appendix H-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 8 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 8 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 8 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 2 Chapter 8 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 8 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 8 Section 2.1.2
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	Part 2 Chapter 8 Section 2.2.1
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	Part 2 Chapter 8 Section 2.2
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	Part 2 Chapter 8 Section 2.1.2
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	Part 2 Chapter 8 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 8 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 8 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 8 Section 3.2
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
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	N/A
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	Part 4 Appendix H-7
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	Part 4 Appendix H-7
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	Part 2 Chapter 8 Section 4 Part 2 Chapter 8 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 8 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 8 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 8 Section 4.7 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 8 Section 4.8 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 8 Section 4.2
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	Part 2 Chapter 8 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 8 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 8 Section 4.2
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	Part 2 Chapter 8 Section 4.8
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	Part 2 Chapter 8 Section 4.6
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)	Part 2 Chapter 8 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 8 Section 4.5.1
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)	Part 2 Chapter 8 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 8 Section 4.5 Part 1 Chapter 3 Part 4 Appendix H-6
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 8 Section 4.5
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	Part 2 Chapter 8 Section 4.7 Part 1 Chapter 7 Part 3 Appendix G
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	Part 2 Chapter 8 Section 4.9 Part 4 Appendix H-6
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	Water Supply Reliability Assessment	Part 2 Chapter 8 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 8 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 8 Section 6
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	Part 2 Chapter 8 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 8 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 8 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 8 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix H-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix H-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix H-9 Section 10.0
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	Part 4 Appendix H-9 Section 2.0
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	Part 4 Appendix H-9 Section 2.0
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	Part 4 Appendix H-9 Section 3.0
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	Part 4 Appendix H-9 Section 3.0
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	Part 4 Appendix H-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix H-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix H-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix H-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix H-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix H-9 Section 4.4&4.5
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	Part 4 Appendix H-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix H-9 Section 5.0
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	Part 4 Appendix H-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix H-9 Section 7.0
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	Part 4 Appendix H-9 Section 7.1
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	Part 4 Appendix H-9 Section 7.2
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	Part 4 Appendix H-9 Section 8.0
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	Part 4 Appendix H-9 Section 8.0
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	Part 4 Appendix H-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix H-9 Section 9.0
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	Part 4 Appendix H-9 Section 4.0
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	Part 4 Appendix H-9 Section 11.0
Section 8.14	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	Part 4 Appendix H-9 Section 11.0
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
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	Part 2 Chapter 8 Section 8
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	Part 2 Chapter 8 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 8 Section 9 Part 4 Appendix H-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9 Part 4 Appendix H-2 Public Outreach
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 8 Section 9
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	Part 2 Chapter 8 Section 9

H-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

AdTech®

Order Tracking - SENT



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[SENT \[3\]](#)

[ADVANCE COST \[0\]](#)

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[ACCOUNTING](#)

[USAGE REPORTS](#)

Order No.	Ad Description	Newspaper/Website	Start	End	Days	Ordered By	Cost Description	Cost
3474028	Notice of Public Hearing	EL CHICANO, CA	06/03/2021	06/10/2021	2	SALLY DURAN [SBMWD1]	-	-
3474029	Notice of Public Hearing	PRECINCT REPORTER, CA	06/03/2021	06/10/2021	2	SALLY DURAN [SBMWD1]	-	-
3474030	Notice of Public Hearing	SAN BERNARDINO COUNTY SUN, CA	06/03/2021	06/10/2021	2	SALLY DURAN [SBMWD1]	-	-

City of San Bernardino Municipal Water Department
Public Hearing Notice
2020 Integrated Regional Urban Water Management Plan and Water
Shortage Contingency Plan

Notice is hereby given that at 9:30 a.m. on Tuesday, June 22, 2021, via web-conference and livestream, accessible via YouTube at: <https://bit.ly/YouTubeSBWater>, the SBMWD's Water Board will conduct a public hearing to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Draft Water Shortage Contingency Plan (WSCP). Following the public hearing, the SBMWD's Water Board may adopt the Draft 2020 IRUWMP and Draft WSCP with recommended modifications, if required resulting from public comment.

The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents SBMWD's plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The Draft WSCP documents SBMWD's plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies.

A copy of the Draft 2020 IRUWMP and Draft WSCP will be available for public review beginning in June 2021 and can be downloaded at www.sbmwd.org/196/Engineering-Reports-and-Plans or viewed at the SBMWD's Engineering Customer Counter located at 397 Chandler Place, San Bernardino between 9:00 a.m. and 3:00 p.m. Monday through Friday. Please contact the SBMWD if you require special accommodations.

Please provide written comments on the Draft 2020 IRUWMP documents to Francisco Jimenez at Francisco.Jimenez@sbmwd.org prior to June 18, 2021.

If you have any questions regarding SBMWD's 2020 IRUWMP or WSCP or public hearing meeting, please contact Francisco Jimenez at (909) 453-6175 or Francisco.Jimenez@sbmwd.org.

Date: <Date of Publication>

San Bernardino Municipal Water Department

H-3: Resolutions

RESOLUTION NO. 2021-006

**RESOLUTION OF THE WATER BOARD OF THE CITY OF
SAN BERNARDINO, CALIFORNIA, ADOPTING THE 2020
UPPER SANTA ANA RIVER WATERSHED INTEGRATED
REGIONAL URBAN WATER MANAGEMENT PLAN**

WHEREAS, in accordance with Section 603 of the City Charter, the Water Board is responsible for oversight and management of the City's water supply, recycled water, wastewater collection and treatment functions; and

WHEREAS, the San Bernardino Municipal Water Department and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and

WHEREAS, the State lawmakers created the Integrated Regional Water Management Planning Act (IRWMP Act) in 2002 to encourage integrated, regional strategies for managing water resources; and

WHEREAS, in 2005, 16 agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan (IRWMP) to collaborate on regional water management issues; and

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and

WHEREAS, the San Bernardino Municipal Water Department participated in the development of the 2007 and 2015 IRWMPs and adopted the 2007 and 2015 IRWMPs; and

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and

WHEREAS, San Bernardino Municipal Water Department meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act requires that said UWMP be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP (RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the UWMP Act; and

WHEREAS, the San Bernardino Municipal Water Department participated in the 2010 and 2015 RUWMP; and

WHEREAS, both the IRWMP and RUWMP are both due to be updated; and

WHEREAS, the San Bernardino Municipal Water Department and nineteen other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional Context, Part 2 – Individual Agency UWMPs, Part 3 – Regional Supporting Information and Part 4 – Individual Agency Supporting Information; and

WHEREAS, as a participant in the 2020 IRUWMP, the San Bernardino Municipal Water Department has prepared those portions of the IRUWMP applicable to the San Bernardino Municipal Water Department to meet the requirements of the IRWMP Act, the UWMP Act and other applicable laws and regulations which include Part 1, Part 2 Chapter 8: San Bernardino Municipal Water Department UWMP, Part 3, and Part 4 Appendix H: San Bernardino Municipal Water Department Supporting Information; and

WHEREAS, in accordance with applicable legal requirements, the San Bernardino Municipal Water Department has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and

WHEREAS, in accordance with the UWMP Act, the San Bernardino Municipal Water Department has prepared the 2020 IRUWMP with staff from its own agency, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 IRUWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding the San Bernardino Municipal Water Department's adoption of Part 1, Part 2 Chapter 8, Part 3,

and Part 4 Appendix H of the 2020 IRUWMP was published within the jurisdiction of the San Bernardino Municipal Water Department on June 3, 2021 and June 10, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 22, 2021 at 9:30 AM, or soon thereafter, via web-conference and livestream accessible via YouTube at <https://bit.ly/YouTubeSBWater>; in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, the San Bernardino Municipal Water Department, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the San Bernardino Municipal Water Department's service area with regard to the preparation of the Plan, encouraged community input regarding the 2020 IRUWMP; and

WHEREAS, the Water Board has reviewed and considered the purposes and requirements of the IRWMP Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and

WHEREAS, the Water Board desires to adopt Part 1, Part 2 Chapter 8, Part 3, and Part 4 Appendix H of the 2020 IRUWMP in order to comply with the IRWMP Act and UWMP Act.

BE IT RESOLVED BY THE WATER BOARD OF THE CITY OF SAN BERNARDINO AS FOLLOWS:

SECTION 1. The above recitals are true and correct and are incorporated herein by this reference.

SECTION 2. Part 1, Part 2 Chapter 8, Part 3, and Part 4 Appendix H of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the Water Board as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Water Board;

SECTION 3. CEQA. The Water Board finds this Resolution is not subject to the California Environmental Quality Act (CEQA) in that the activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty, as in this case, that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

SECTION 4. The General Manager is hereby authorized and directed to include a copy of this Resolution in the San Bernardino Municipal Water Department's 2020 IRUWMP;

SECTION 5. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the San

Bernardino Municipal Water Department portions of the 2020 IRUWMP to DWR no later than July 1, 2021;

SECTION 6. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which the San Bernardino Municipal Water Department provides water supplies no later than thirty (30) days after this adoption date;

SECTION 7. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at the San Bernardino Municipal Water Department offices during normal business hours and on the San Bernardino Municipal Water Department website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;

SECTION 8. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which the San Bernardino Municipal Water Department provides water supplies no later than sixty (60) days after submitting a copy to DWR;

SECTION 9. The General Manager is hereby authorized and directed to implement the 2020 Plan in accordance with the IRWMP Act and UWMP Act and to provide recommendations to the Water Board regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

SECTION 10. Severability. If any provision of this Resolution or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications, and to this end the provisions of this Resolution are declared to be severable.

SECTION 11. Effective Date. This Resolution shall become effective immediately.

APPROVED and **ADOPTED** by the Water Board and signed by the President of the Water Board and attested by the Deputy City Clerk & Ex Officio Secretary of the Water Board this 22nd day of June, 2021.



Toni Callicott, President
City of San Bernardino Water Board

Attest:



Robin L. Ohama (Jun 22, 2021 11:40 PDT)

Robin Ohama
Deputy City Clerk & Ex Officio Secretary of the Water Board

CERTIFICATION

STATE OF CALIFORNIA)
COUNTY OF SAN BERNARDINO) ss
CITY OF SAN BERNARDINO)

I, Robin Ohama, Deputy City Clerk & Ex Officio Secretary of the Water Board, hereby certify that the attached is a true copy of Resolution No. adopted at a regular meeting held on the 22nd day of June 2021 by the following vote:

<u>Council Members:</u>	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
CALLICOTT	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
HENDRIX	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
MLYNARSKI	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
BRICKLEY	<u> </u>	<u> </u>	<u> </u>	<u> X </u>
JOHNSON	<u> X </u>	<u> </u>	<u> </u>	<u> </u>

WITNESS my hand and official seal of the City of San Bernardino this 22nd day of June, 2021.

Robin L. Ohama
Robin L. Ohama (Jun 22, 2021 11:40 PDT)

Robin Ohama
Deputy City Clerk & Ex Officio Secretary of
the Water Board

H-4: Agreements

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- The Parties wish to enter into arrangements that will allow East Valley and Valley District to construct and operate the SNRC Project and that will allow the City to construct and operate the CWF Project.
- The Parties wish to enter into arrangements that will ensure that the SNRC Project and the CWF Project are operated in a manner that is consistent with the recovery of threatened and endangered fish populations in the Santa Ana River that may depend on the discharge of treated wastewater into the Santa Ana River.
- The Parties wish to enter into arrangements that will replenish the San Bernardino Basin Area (“SBBA”) and thereby enhance water supply reliability for their respective ratepayers.
- The Parties wish to enter into arrangements that will allow East Valley to provide wastewater treatment and disposal services to its ratepayers in compliance with the LAFCo Law, and without adversely affecting the ratepayers within the City.
- The Parties wish to further enhance water supply reliability (and thereby lessen the demands for the extraction of groundwater from the SBBA) by engaging in a number of water efficient landscape improvements located within the City.
- The Parties wish to conclude all of the foregoing litigation on a mutually agreeable basis and move on from the conflict associated with litigation to collaborative efforts that will best serve the interests of their respective ratepayers.

H. The Parties wish to memorialize their mutual agreements and understandings by means of this Agreement.

Agreements

1. *Construction and Operation of Facilities*

a. *Status of Existing JPA Agreement.* At present, the City provides wastewater treatment and disposal services to East Valley pursuant to a Joint Powers Authority agreement dated January 7, 1958, as amended most recently in April 1984 (“JPA Agreement”). The Parties intend to continue to operate under the terms of the JPA Agreement solely as it pertains to wastewater treatment and disposal services until termination of the JPA Agreement as provided for in subparagraph 1(b) below. Not later than ninety (90) days after the date upon which the San Bernardino Local Agency Formation Commission (“LAFCo”) may approve the activation of East Valley’s latent authority for wastewater

83 treatment and disposal services, all remaining JPA obligations imposed upon the
84 Parties including, but not limited to, East Valley's obligation to collect connection
85 fees for the benefit of the City and the expansion fees described in section 3(c) of
86 this Agreement shall terminate. The Parties shall, within one hundred eighty
87 (180) days of the execution of this Agreement, agree upon amendments to the
88 JPA Agreement to effectuate this Agreement.

89 b. *Termination of JPA Agreement.* Prior to completion of the SNRC Project, East
90 Valley shall provide notice of anticipated completion to the other Parties and
91 identify a date, at least six (6) months in the future, when East Valley will begin
92 to provide wastewater treatment and disposal services to its customers. Upon
93 SNRC Project completion, East Valley shall provide notice of completion to all
94 Parties.

95 (1) The City shall, within thirty days of the date of East Valley's notice of
96 completion, provide the other Parties with final invoicing, consistent with
97 the City's prior invoicing practices, showing all charges incurred or that
98 will be incurred for the operation of the City's facilities through the date
99 on which East Valley will provide wastewater treatment services.

100 (2) East Valley shall, within thirty (30) days of receiving the City's final
101 invoicing, either agree with that invoicing or begin the dispute resolution
102 process described in paragraph 6(b) below. Such disputes shall be limited
103 to invoice items that exceed one percent (1%) of the total invoiced
104 amount.

105 (3) The JPA Agreement shall terminate on the date that East Valley begins to
106 provide wastewater treatment services to its customers (the "Service
107 Date") notwithstanding any dispute among the parties relating to the
108 invoicing provided by the City. Such disputes will be addressed through
109 procedures described in paragraph 6(b) below.

110 c. *SNRC Project.* The Parties agree to cooperate to enable East Valley and Valley
111 District to construct the SNRC Project and place that project into operation at the
112 earliest possible date, as follows:

113 (1) *General Provisions*

114 (a) The Parties agree that the SNRC Project will divert and treat all
115 wastewater flows that are generated within East Valley's service
116 area, which are currently approximately 6 million gallons/day, that
117 would have been treated by SB Water pursuant to the JPA
118 Agreement.

119 (b) Upon execution of this Agreement, the City and SB Water shall
 120 send a letter to the State Water Resources Control Board
 121 supporting the use of State Revolving Fund ("SRF") grant and
 122 loan funds, at the lowest available rate of interest, to fund the
 123 SNRC Project. Such letter shall be approved in advance by East
 124 Valley. If requested by East Valley and/or Valley District,
 125 representatives of the City and/or SB Water shall participate in a
 126 teleconference with the State Water Resources Control Board or its
 127 staff to state that SRF grant or loan funds be issued to East Valley
 128 for the construction of the SNRC Project.

129 (c) After execution of this Agreement and upon request of East Valley
 130 and/or Valley District, the City and/or SB Water shall provide
 131 similar letter(s) supporting the SNRC Project to local, state or
 132 federal administrative or regulatory agencies, private financial
 133 institutions, or other entities with oversight or control over the
 134 SNRC Project or its financing.

135 (2) *East Trunk Sewer Line.* The Parties shall negotiate and execute the
 136 appropriate legal instruments through which the City and SB Water shall
 137 convey by means of grant deed all right, title and interest in a 20,800
 138 linear foot portion of the East Trunk Sewer Line as shown on Exhibit A
 139 attached hereto, which is incorporated herein by reference, together with
 140 any associated appurtenances, easements, operating agreements and the
 141 like necessary for the safe operation of that portion of the East Trunk
 142 Sewer Line, to East Valley. Such conveyance shall become effective on
 143 the date upon which LAFCo may approve activation of East Valley's
 144 latent authority to provide wastewater treatment services. This portion of
 145 the East Trunk Sewer Line is needed by East Valley so as to allow East
 146 Valley to collect and transport wastewater flows to the SNRC Project.
 147 The City, SB Water and East Valley shall cooperate in drawing up the
 148 necessary documentation and obtaining any regulatory permits for such
 149 transfer. All costs incurred by any Party associated with the conveyance
 150 and transfer of this portion of the East Trunk Sewer Line shall be the sole
 151 responsibility of East Valley, and East Valley shall reimburse the other
 152 Parties for any such costs incurred by them. After the date of the transfer,
 153 East Valley shall be responsible for all operation and maintenance costs
 154 associated with the portion of the East Trunk Sewer Line that has been
 155 transferred to East Valley from the City and SB Water.

156 (3) *Commingling/Exchange of Flows.* East Valley, the City and SB Water
 157 further understand and agree that implementing the transfer of a portion of

158 the East Trunk Sewer Line, both while the SNRC Project is being
 159 constructed and after the SNRC Project commences operation, will require
 160 an exchange/commingling of wastewater flows originating within the
 161 service areas of the City/SB Water and East Valley in roughly equal
 162 quantities so as to ensure the efficient operation of the regional wastewater
 163 system and thereby avoid increasing the cost of wastewater treatment to
 164 East Valley's ratepayers. The City/SB Water and East Valley agree that,
 165 within one hundred eighty (180) days of the effective date of this
 166 Agreement, they will enter into the necessary agreements for such
 167 exchange/commingling of wastewater flows, and that they will cooperate
 168 fully in obtaining any regulatory approvals needed for the transfer of the
 169 portion of the East Trunk Sewer Line to East Valley. To the extent that
 170 additional physical facilities are needed to accomplish the transfer, the
 171 costs associated with the permitting, construction and operation of those
 172 new physical facilities shall be the sole responsibility of East Valley, and
 173 East Valley shall reimburse the other Parties for any such costs incurred
 174 by them.

- 175 d. *CWF Project.* The Parties agree to support the construction and operation of a
 176 new recycled water plant project by the City (known as the "CWF Project").
- 177 (1) SB Water and Valley District hereby reaffirm their respective
 178 commitments pursuant to the February 22, 2011 Memorandum of
 179 Understanding ("MOU") that withdrew protests to Wastewater Change
 180 Petition No. WW0059 for the CWF Project.
- 181 (2) After execution of this Agreement and upon request of the City, Valley
 182 District and/or East Valley shall appear at public meetings to support the
 183 CWF Project and/or take such other actions (including but not limited to
 184 resolutions of their respective governing boards) to support the CWF
 185 Project. After execution of this Agreement and upon request of the City or
 186 SB Water, East Valley and/or Valley District shall provide similar letter(s)
 187 supporting the CWF Project to local, state or federal administrative or
 188 regulatory agencies, private financial institutions, or other entities with
 189 oversight or control over the CWF Project or its financing.
- 190 (3) The Parties agree that the CWF Project will not be inconsistent with the
 191 provisions of the Upper Santa Ana River Habitat Conservation Plan, if
 192 such plan is approved by the United States Fish & Wildlife Service
 193 ("USFWS").
- 194 (a) The City and Valley District, together with their partners under
 195 said MOU, may seek to obtain the regulatory permits necessary for

196 the CWF Project in advance of the completion of the Upper Santa
 197 Ana River Habitat Conservation Plan, *provided that* the provisions
 198 associated with the CWF Project are subsequently included in the
 199 Upper Santa Ana River Habitat Conservation Plan.

200 (b) If the USFWS does not approve the Upper Santa Ana River
 201 Habitat Conservation Plan by January 1, 2020, then the City and
 202 Valley District may seek to obtain separate regulatory permits for
 203 the CWF Project.

204 (4) After execution of this Agreement, after submittal of any SRF grant/loan
 205 application for the CWF Project, and upon request of the City or SB
 206 Water, Valley District and East Valley shall send a letter to the State
 207 Water Resources Control Board supporting the use of SRF grant and loan
 208 funds, at the lowest available rate of interest, to fund the CWF Project.
 209 Such letter shall be approved in advance by the City or SB Water. If
 210 requested by the City or SB Water, representatives of East Valley and/or
 211 Valley District shall participate in a teleconference with the State Water
 212 Resources Control Board or its staff to state that SRF grant or loan funds
 213 be issued to the City or SB Water for the construction of the CWF Project.

214 e. *Treatment and Management of Solids*

215 (1) *Prior to the Completion of the SNRC Project.* Until the completion of the
 216 SNRC Project, East Valley and City/SB Water will work cooperatively to
 217 enable the City/SB Water to treat solids originating within East Valley's
 218 service area in the same manner as at present. The Parties shall also work
 219 cooperatively: (i) to develop cost-effective plans and specifications for any
 220 additional pipelines or new equipment/facilities that may be necessary to
 221 effectuate the solids handling agreement described in paragraph 1(e)(2)
 222 below; (ii) in the acquisition and construction of such equipment/facilities;
 223 and (iii) in securing any needed regulatory permits or approvals. East
 224 Valley shall be responsible for all cost associated with such pipelines or
 225 new equipment/facilities as may be determined in the agreement described
 226 in paragraph 1(e)(2) below.

227 (2) *After Completion of the SNRC Project.* Within thirty (30) days of the
 228 effective date of this Agreement, East Valley and the City/SB Water will
 229 enter into negotiations for the handling of solids after the completion of
 230 the SNRC Project, with the goal of entering into a definitive agreement for
 231 the cost-effective handling of solids originating within East Valley's
 232 service area by the City/SB Water no later than one hundred eighty (180)
 233 days from the effective date of this Agreement.

- 234 (a) The initial term of the solids handling agreement shall be for ten
 235 (10) years, with two optional five (5) year renewal periods. The
 236 solids handling agreement shall commence on the Service Date.
 237 The solids handling agreement shall include an “evergreen” term
 238 that provides that the agreement shall be renewed for subsequent
 239 terms unless either party provides written notice of termination at
 240 least two years before the termination of the then-current term.
- 241 (b) The solids handling agreement shall provide for a service charge to
 242 be paid by East Valley to the City/SB Water, which charge shall be
 243 set so as to enable the City/SB Water to recover the actual costs of
 244 providing solids handling and treatment of the solids handling
 245 process liquid product, together with reasonable overhead not to
 246 exceed forty percent (40%) of the actual cost of service, *provided*
 247 *that* overhead shall not be charged on electricity costs charged by a
 248 third party utility provider and associated with the provision of
 249 solids handling.
- 250 (c) In the event that the City/SB Water and East Valley are unable to
 251 agree on the design, construction, or installation for the
 252 equipment/facilities that would enable SB Water to continue to
 253 provide solids handling services to East Valley after the Service
 254 Date by one hundred eighty (180) days after the effective date of
 255 this Agreement, East Valley shall, not later than thirty (30) days
 256 after the Service Date and on the anniversary of the Service Date
 257 thereafter for nine (9) years, pay SB Water the sum of seven
 258 hundred thousand dollars (\$700,000) each year, for a total payment
 259 to SB Water of seven million dollars (\$7,000,000). In the
 260 alternative, and subject to the prior written consent of SB Water
 261 and SB Water’s concurrence on the value of the replenishment
 262 water, East Valley may replenish the SBBA with water that has an
 263 equivalent value as the payment to be made in any given year.
- 264 f. *Installation of Water Efficient Landscaping.* Not later than ninety (90) days after
 265 the date upon which LAFCo may approve the activation of East Valley’s latent
 266 authority for wastewater treatment and disposal services, East Valley shall pay
 267 five hundred thousand dollars (\$500,000) and Valley District shall agree to
 268 reimburse the City for up to five hundred thousand dollars (\$500,000) to SB
 269 Water for the purpose of enabling SB Water to install water efficient landscape
 270 improvements in areas to be determined by the City and SB Water. During that
 271 same period of time, SB Water shall contribute an additional five hundred
 272 thousand dollars (\$500,000) to that account, to bring the total contributions to the

273 account to one million five hundred thousand dollars (\$1,500,000). The City and
274 SB Water, after consulting East Valley and Valley District, shall develop a plan
275 for the installation of water efficient landscape improvements using the \$1.5
276 million, within one (1) year of the execution of this Agreement. The City and SB
277 Water shall install such water efficient landscape improvements within three (3)
278 years of the date of execution of this Agreement.

279 g. *Replenishment of the SBBA.* Beginning in the fiscal year of the Service Date or
280 fiscal year 2021/22, whichever is later, Valley District shall deliver to the City/SB
281 Water a total of thirty thousand (30,000) acre-feet of State Water Project Water, at
282 Valley District's sole cost, for direct diversion and/or groundwater replenishment
283 at the City/SB Water's direction. City/SB Water expects to use and Valley
284 District expects to deliver three thousand (3,000) acre-feet of such water each
285 year, but if Valley District is not able to deliver three thousand (3,000) acre-feet in
286 a given year, it shall use its best efforts to deliver the undelivered water in the
287 following fiscal years, provided that such water is available in any given year
288 pursuant to Valley District's contract with the California Department of Water
289 Resources. The unavailability of such water in any given year does not excuse
290 Valley District's overall obligation under this Agreement to deliver thirty
291 thousand (30,000) acre-feet of such water to the City/SB Water.

292 h. *Upper Santa Ana River Habitat Conservation Plan and the CWF Project.* Valley
293 District shall use its best efforts to develop, in conjunction with USFWS and
294 California Department of Fish and Wildlife ("CDFW") (collectively, the
295 "Wildlife Agencies") and through the Wildlife Agencies' permitting processes, a
296 habitat conservation plan for the Upper Santa Ana River that provides for take
297 coverage for a new recycled water plant project on the part of the City/SB Water
298 that would reduce the current discharge of treated wastewater into the Santa Ana
299 River by five (5) million gallons/day.

300 (1) In the event that the final habitat conservation plan, or as provided in
301 paragraphs 1(d)(3) and 1(h) above, the Wildlife Agencies' permitting
302 processes, does not authorize the City/SB Water to reduce its discharge of
303 treated wastewater to the Santa Ana River by five (5) million gallons/day,
304 Valley District shall deliver to the City/SB Water up to three thousand
305 (3,000) acre-feet per year of State Water Project Water, at Valley
306 District's sole cost, for direct diversion and/or groundwater replenishment
307 at the City/SB Water's direction.

308 (2) The annual amount of such water delivered by Valley District will be the
309 difference between five (5) million gallons/day and the amount of treated
310 wastewater discharge that SB Water is allowed to reduce from its current
311 discharge amount. Valley District will provide this annual amount until

312 the City/SB Water can reduce its discharge by five (5) million gallons per
313 day from its current discharge amount for its recycled water project,
314 *provided that* prior to the construction of the City/SB Water's new
315 recycled water plant, the City/SB Water has installed and is properly
316 maintaining automatic back-up power for the RIXES Well
317 Rehabilitation/Santa Ana Sucker Habitat Maintenance/Restoration Project
318 at the City/SB Water's wastewater treatment plant(s).

319 (3) The Parties agree and acknowledge that future growth within the service
320 areas of SB Water and East Valley may allow SB Water and East Valley
321 to increase the quantity of recycled water generated from wastewater
322 flows within their respective service areas. The Parties agree that they
323 will support increases in the quantity of recycled water as part of both the
324 SNRC Project and the CWF Project *provided that* the increase in recycled
325 water for either project is derived from growth within that Party's service
326 area *and provided further* that such increased use of recycled water does
327 not diminish the quantity of treated wastewater that will be discharged into
328 the Santa Ana River pursuant to the Upper Santa Ana River Habitat
329 Conservation Plan.

330 2. *Application to San Bernardino County Local Agency Formation Commission to Activate*
331 *Wastewater Treatment Authority.* Within 60 days of the execution of this Agreement,
332 East Valley shall begin the process to submit to LAFCo an application to activate its
333 latent wastewater treatment and disposal authority. East Valley agrees that it will pursue
334 the application to a final decision by LAFCo, either in favor of the activation of the latent
335 authority or to deny activation of that authority. At least 45 days prior to the submission
336 of the application, East Valley shall provide a draft of the proposed application to the
337 other Parties to this Agreement for review and comment. The provisions of the
338 application shall be consistent with the terms of this Agreement and shall fully comply
339 with all of the applicable requirements of LAFCo Law. No later than five (5) days after
340 the date on which East Valley submits the application to LAFCo, the City/SB Water and
341 Valley District shall submit letters supporting that application to LAFCo. The Parties
342 understand that East Valley will request that LAFCo expedite processing of the
343 application so that East Valley's latent wastewater treatment authority can be activated no
344 later than December 31, 2018. The City/SB Water and Valley District, upon request by
345 East Valley, shall appear at public meetings to support East Valley's application and/or
346 take such other actions (including but not limited to resolutions of their respective
347 governing boards) to support that application.

- 348 3. *Transfers of Property and Other Assets.* The Parties will negotiate and execute definitive
349 agreements for the following transfers of property and assets, which will become
350 effective on the date that LAFCo approves the activation of East Valley's latent authority
351 to treat and dispose of wastewater.
- 352 a. The transfer, in fee title and without encumbrances or liens, from East Valley to
353 the City/SB Water of approximately 22 acres of land located at the intersection of
354 Sterling and 3rd Street (APNs 1192-231-01 and 1192-241-01), save for the
355 existing well portion of the property, as shown on Exhibit B, which is attached
356 hereto and incorporated herein by reference.
- 357 b. The transfer from the City/SB Water to East Valley of the balance of the East
358 Trunk Sewer Line Replacement Fund, which is currently estimated to be
359 approximately \$8 million, which funds have been collected by the City/SB Water
360 from East Valley's ratepayers since 1984 for the purpose of expanding the
361 capacity of the East Trunk Sewer Line to meet the needs of future growth. Not
362 later than ninety (90) days after the date upon which LAFCo may approve the
363 activation of East Valley's latent authority for wastewater treatment and disposal
364 services, the East Trunk Sewer Line funds will no longer be collected by the
365 City/SB Water. East Valley shall use the transferred funds in compliance with all
366 applicable laws, including but not limited to Proposition 218.
- 367 c. The transfer under subparagraph 3(a) is made by East Valley to the City/SB
368 Water in consideration of the transfer from the City/SB Water to East Valley
369 under subparagraph 3(b).
- 370 4. *Dismissal/Prevention of Litigation.* The Parties agree that this Agreement represents a
371 comprehensive settlement of all current litigation between the Parties. Not later than ten
372 (10) days after the execution of this Agreement, the City shall dismiss its appeal in the
373 CEQA Lawsuit with prejudice, and the City, East Valley, and Valley District shall
374 dismiss their respective complaints in the LAFCo Lawsuit with prejudice. Valley District
375 and East Valley shall, also within ten (10) days after the execution of this Agreement,
376 withdraw their pending Bill of Costs filed in the CEQA Lawsuit, and all Parties shall bear
377 their own costs and fees incurred in said litigation. Valley District and East Valley agree
378 that they will not file any administrative or judicial challenges to the CWF Project.

379 5. *Indemnification*

380 a. *General Indemnification.* Each Party shall indemnify, defend and hold harmless
 381 each of the other Parties and their respective directors, officers, employees and
 382 agents from and against all damages, liabilities, claims, actions, demands, costs
 383 and expenses (including, but not limited to, costs of investigations, lawsuits and
 384 any other proceedings whether in law or in equity, settlement costs, attorneys'
 385 fees and costs), and penalties or violations of any kind, which arise out of, result
 386 from, or are related to the Party's performance of its obligations under this
 387 Agreement.

388 b. *Indemnification Procedures.* Any Party that is an indemnified party (the
 389 "Indemnified Party") that has a claim for indemnification against the other Party
 390 (the "Indemnifying Party") under this Agreement, shall promptly notify the
 391 Indemnifying Party in writing, *provided, however,* that no delay on the part of the
 392 Indemnified Party in notifying the Indemnifying Party shall relieve the
 393 Indemnifying Party from any obligation unless (and then solely to the extent) the
 394 Indemnifying Party is prejudiced. Further, the Indemnified Party shall promptly
 395 notify the Indemnifying Party of the existence of any claim, demand, or other
 396 matter to which the indemnification obligations would apply, and shall give the
 397 Indemnifying Party a reasonable opportunity to defend the same at its own
 398 expense and with counsel of its own selection, *provided that* the Indemnified
 399 Party shall at all times also have the right to fully participate in the disputed
 400 matter at its own expense. If the Indemnifying Party, within a reasonable time
 401 after notice from the Indemnified Party, fails to defend a claim, demand or other
 402 matter to which the indemnification obligations would apply, the Indemnified
 403 Party shall have the right, but not the obligation, to undertake the defense of, and
 404 to compromise or settle (exercising reasonable business judgment), the claim or
 405 other matter, on behalf, or for the account, and at the risk, of the Indemnifying
 406 Party. If the claim is one that cannot by its nature be defended solely by the
 407 Indemnifying Party, then the Indemnified Party shall make available all
 408 information and assistance to the Indemnifying Party that the Indemnifying Party
 409 may reasonably request.

410 6. *Administration of Agreement*

411 a. *Books and Records.* Each Party shall have access to and the right to examine any
 412 of the other Parties' pertinent books, documents, papers or other records
 413 (including, without limitation, records contained on electronic media) relating to
 414 the performance of that Party's obligations pursuant to this Agreement.

415 (1) *Retention of Records; Preservation of Privilege.* Each Party shall retain
 416 all such books, documents, papers or other records to facilitate such

417 review in accordance with that Party's record retention policy. Access to
418 each Party's books and records shall be during normal business hours
419 only. Nothing in this paragraph shall be construed to operate as a waiver
420 of any applicable privileges.

421 (2) *Outside Auditors.* Any Party may, at any time and at its sole cost, hire an
422 auditor to examine the accounting for work performed pursuant to this
423 Agreement. The Parties may also agree to retain an independent auditor to
424 review the accounting for work performed pursuant to this Agreement.
425 The costs of such an auditor will be shared equally among the Parties.

426 b. *Disputes.* The Parties recognize that there may be disputes regarding the
427 obligations of the Parties or the interpretation of this Agreement. The Parties
428 agree that they may attempt to resolve disputes as follows:

429 (1) *Statement Describing Alleged Violation or Interruption of Agreement.* A
430 Party alleging a violation or interruption of this Agreement (the
431 "Initiating Party") shall provide a written statement describing all facts
432 that it believes constitute a violation or interruption of this Agreement to
433 the Party alleged to have violated or interrupted the terms of this
434 Agreement (the "Responding Party").

435 (2) *Response to Statement of Alleged Violation or Interruption.* The
436 Responding Party shall have sixty (60) days from the date of the written
437 statement to prepare a written response to the allegation of a violation or
438 interruption of this Agreement and serve that response on the Initiating
439 Party or to cure the alleged violation or interruption to the reasonable
440 satisfaction of the Initiating Party. The Initiating Party and the
441 Responding Party shall then meet within thirty (30) days of the date of the
442 response to attempt to resolve the dispute amicably.

443 (3) *Mediation of Dispute.* If the Initiating Party and the Responding Party
444 cannot resolve the dispute within ninety (90) days of the date of the
445 written response, they shall engage a mediator, experienced in water-
446 related disputes, to attempt to resolve the dispute. Each Party shall ensure
447 that it is represented at the mediation by a Director. These representatives
448 of the Initiating Party and the Responding Party may consult with staff
449 and/or technical consultants during the mediation and such staff and/or
450 technical consultants may be present during the mediation. The costs of
451 the mediator shall be divided evenly between the Initiating Party and the
452 Responding Party or Parties.

453 (4) *Prior to Claims Under California Tort Claims Act.* The Parties agree that
454 the procedure described in this paragraph 6(b) represents an effort to
455 resolve disputes without the need for a formal claim under the California
456 Tort Claims Act or other applicable law. The period of time for the
457 presentation of a claim by one Party against another shall be tolled for the
458 period from the date on which the Initiating Party files a written statement
459 until the date upon which the mediator renders a decision.

460 (5) *Reservation of Rights.* Nothing in this paragraph 6(b) shall require a Party
461 to comply with a decision of the mediator and, after the completion of the
462 mediation process described above, each Party shall retain and may
463 exercise at any time all legal and equitable rights and remedies it may
464 have to enforce the terms of this Agreement; provided, that prior to
465 commencing litigation, a Party shall provide at least five (5) calendar
466 days' written notice of its intent to sue to the other Party.

467 7. *General Provisions.*

468 a. *Authority.* Each signatory of this Agreement represents that s/he is authorized to
469 execute this Agreement on behalf of the Party for which s/he signs. Each Party
470 represents that it has legal authority to enter into this Agreement and to perform
471 all obligations under this Agreement.

472 b. *Amendment.* This Agreement may be amended or modified only by a written
473 instrument executed by each of the Parties to this Agreement.

474 c. *Jurisdiction and Venue.* This Agreement shall be governed by and construed in
475 accordance with the laws of the State of California, except for its conflicts of law
476 rules. Any suit, action, or proceeding brought under the scope of this Agreement
477 shall be brought and maintained to the extent allowed by law in the County of San
478 Bernardino, California.

479 d. *Headings.* The paragraph headings used in this Agreement are intended for
480 convenience only and shall not be used in interpreting this Agreement or in
481 determining any of the rights or obligations of the Parties to this Agreement.

482 e. *Construction and Interpretation.* This Agreement has been arrived at through
483 negotiations and each Party has had a full and fair opportunity to revise the terms
484 of this Agreement. As a result, the normal rule of construction that any
485 ambiguities are to be resolved against the drafting Party shall not apply in the
486 construction or interpretation of this Agreement.

- 487 f. *Entire Agreement.* This Agreement constitutes the entire agreement of the Parties
488 with respect to the subject matter of this Agreement and, save as expressly
489 provided in this Agreement, supersedes any prior oral or written agreement,
490 understanding, or representation relating to the subject matter of this Agreement.
- 491 g. *Partial Invalidity.* If, after the date of execution of this Agreement, any provision
492 of this Agreement is held to be illegal, invalid, or unenforceable under present or
493 future laws effective during the term of this Agreement, such provision shall be
494 fully severable. However, in lieu thereof, there shall be added a provision as
495 similar in terms to such illegal, invalid or unenforceable provision as may be
496 possible and be legal, valid and enforceable.
- 497 h. *Successors and Assigns.* This Agreement shall be binding on and inure to the
498 benefit of the successors and assigns of the respective Parties to this Agreement.
499 No Party may assign its interests in or obligations under this Agreement without
500 the written consent of the other Parties, which consent shall not be unreasonably
501 withheld or delayed.
- 502 i. *Waivers.* Waiver of any breach or default hereunder shall not constitute a
503 continuing waiver or a waiver of any subsequent breach either of the same or of
504 another provision of this Agreement and forbearance to enforce one or more of
505 the rights or remedies provided in this Agreement shall not be deemed to be a
506 waiver of that right or remedy.
- 507 j. *Attorneys' Fees and Costs.* The prevailing Party in any litigation or other action
508 to enforce or interpret this Agreement shall be entitled to reasonable attorneys'
509 fees, expert witnesses' fees, costs of suit, and other and necessary disbursements
510 in addition to any other relief deemed appropriate by a court of competent
511 jurisdiction.
- 512 k. *Necessary Actions.* Each Party agrees to execute and deliver additional
513 documents and instruments and to take any additional actions as may be
514 reasonably required to carry out the purposes of this Agreement.
- 515 l. *Compliance with Law.* In performing their respective obligations under this
516 Agreement, the Parties shall comply with and conform to all applicable laws,
517 rules, regulations and ordinances.
- 518 m. *Third Party Beneficiaries.* This Agreement shall not create any right or interest in
519 any non-Party or in any member of the public as a third party beneficiary.

- 520 n. *Counterparts.* This Agreement may be executed in one or more counterparts,
521 each of which shall be deemed to be an original, but all of which together shall
522 constitute but one and the same instrument.
- 523 o. *Notices.* All notices, requests, demands or other communications required or
524 permitted under this Agreement shall be in writing unless provided otherwise in
525 this Agreement and shall be deemed to have been duly given and received on: (i)
526 the date of service if served personally, served by facsimile transmission, or
527 served via electronic mail on the Party to whom notice is to be given at the
528 address(es) provided below, (ii) on the first day after mailing, if mailed by Federal
529 Express, U.S. Express Mail, or other similar overnight courier service, postage
530 prepaid, and addressed as provided below, or (iii) on the third day after mailing if
531 mailed to the Party to whom notice is to be given by first class mail, registered or
532 certified, postage prepaid, addressed as follows:

533 *Notice to San Bernardino Valley Municipal Water District*

534 Douglas Headrick, General Manager
535 SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
536 380 East Vanderbilt Way, San Bernardino, CA 92408
537 Phone: (909) 820-3701
538 Email: douglash@sbsvmwd.com
539

540 David R.E. Aladjem
541 DOWNEY BRAND LLP
542 621 Capitol Mall, Sacramento, CA 95814
543 Phone: (916) 520-5361
544 Email: daladjem@downeybrand.com

545 *Notice to East Valley Water District*

546 John Mura, General Manager/CEO
547 EAST VALLEY WATER DISTRICT
548 31111 Greenspot Rd., Highland, CA 92346
549 Phone: 909-889-9501
550 Email: john@eastvalley.org
551

552 Jean Cihigoyenetché
553 JC LAW FIRM
554 5871 Pine Ave., Suite 200, Chino Hills, CA 91709
555 Phone: 909-941-3382
556 E-mail: jean@thejclawfirm.com
557

558 *Notice to the City of San Bernardino and the City of San Bernardino Municipal Water*
559 *Department*

561 Andrea M. Miller, City Manager
562 CITY OF SAN BERNARDINO
563 290 North "D" Street
564 San Bernardino, CA 92418
565 Phone: (909) 384-5122
566 E-mail: Miller_an@sbcity.org

568 Gary D. Saenz
569 City Attorney
570 Office of the City Attorney
571 290 North "D" Street, 3rd Floor
572 San Bernardino, CA 92401
573 Phone: (909) 384-5355
574 E-mail: Saenz_Ga@sbcity.org

576 Andrew M. Hitchings
577 Somach Simmons & Dunn
578 500 Capitol Mall, Suite 1000
579 Sacramento, CA 95814
580 Phone: (916) 446-7979
581 E-mail: ahitchings@somachlaw.com

582
583
584 IN WITNESS HEREOF, the Parties have executed this Agreement on the dates set forth below:
585

586 SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

587
588 By: 

Dated: 11/21/17

589 Susan Longville
590 President, Board of Directors

591
592 By: 

Dated: 11/21/17

593 Steve Coplan, Secretary
594

595 APPROVED AS TO FORM

596 By: 

Dated: 11/21/17

597 David R.E. Aladjem
598 Downey Brand, LLP
599 Counsel for San Bernardino Valley Municipal Water District
600

601 EAST VALLEY WATER DISTRICT

602 By: 

Dated: 11-21-17

604 Ronald L. Coats
605 Chairman of the Board
606

607 By: 

Dated: 11-21-17

608 John Mura, General Manager/CEO

609 APPROVED AS TO FORM

610 By: 

Dated: 11-21-17

612 Jean Cihigoyenetché
613 JC Law Firm
614 Counsel for East Valley Water District
615
616
617

618

CITY OF SAN BERNARDINO

619

620

By: R. Carey Davis

Dated: 11/29/2017

621

R. Carey Davis
Mayor

622

623

624

By: Andrea Miller

Dated: 11/29/17

625

Andrea Miller
City Manager

626

627

628

629

CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

630

631

By: Toni Callicott

Dated: 11-30-17

632

Toni Callicott
President

633

634

APPROVED AS TO FORM

635

636

637

By: Gary D. Saenz

Dated: 11/28/17

638

Gary D. Saenz, City Attorney

639

640

By: Andrew M. Hitchings

Dated: 11/30/17

641

Andrew M. Hitchings
Somach Simmons & Dunn
Special Counsel for City of San Bernardino

642

643

644

645

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647

Exhibit A: Map: EVWD and San Bernardino Tributary to 3rd Sewer Study
Exhibit B: Map: Sterling Properties

Exhibit A

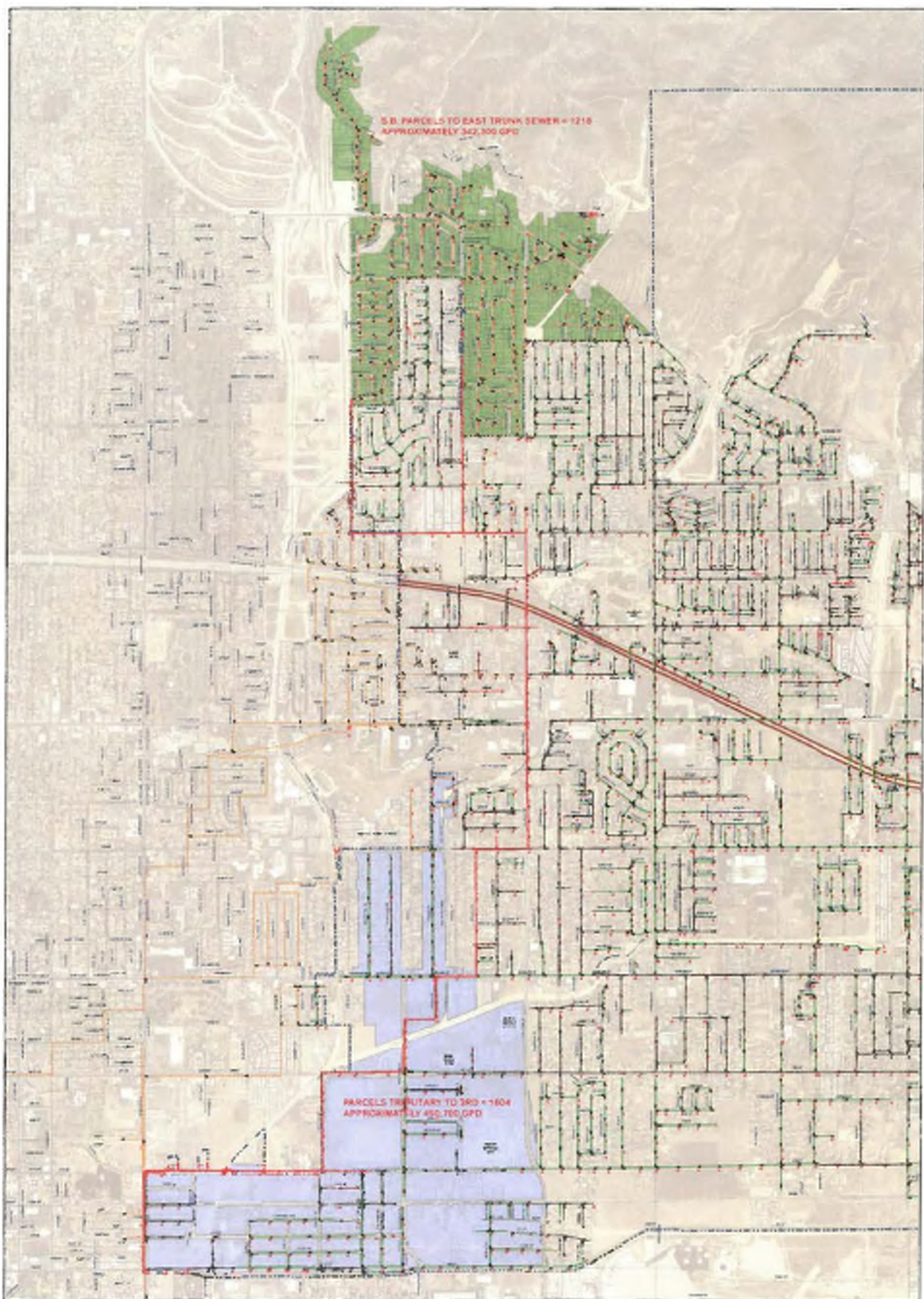


Exhibit B

STERLING PROPERTIES



**EMERGENCY WATER SUPPLY AGREEMENT
BETWEEN THE CITY OF SAN BERNARDINO MUNICIPAL
WATER DEPARTMENT AND THE DEVORE MUTUAL WATER COMPANY**

This agreement ("Agreement"), by and between the City of San Bernardino Municipal Water Department ("Department") and the Devore Mutual Water Company ("Devore"), is entered into and effective from November 3, 2015

Recitals

- A. Devore desires to take delivery of water from the Department to supplement its water supply in an emergency. Devore is willing to purchase said water at the current rate determined by Rule and Regulation No. 21
- B. The Department, a municipal agency, and Devore, a mutual water company ("Party or Parties"), are both water providers.
- C. The service areas of the two respective Parties are contiguous and the Department is willing to deliver water to Devore subject to the hydraulic limitations of the Devore/Meyers pressure zone.

Agreements

The Parties therefore, agree as follows:

- 1. "Emergency" means a condition of disaster or calamity arising within the area of operation of the parties, caused by fire, drought, flood, storm, earthquake, civil disturbance, or other condition which is likely to be beyond the control of the Party requesting assistance.
- 2. The Department hereby agrees to furnish the following service connection for Devore's use in the case of emergencies: One (1) - four (4) inch standby service, located at the intersection of Devore Road and Cajon Blvd. in the County of San Bernardino. The standby service to be provided by the Department is limited to the extent that it is not a guaranteed service and is dependent on the Department's ability to first provide full service to the Department's customers. The service referenced will be installed at the Department's expense and will be the Department's property.
- 3. Devore hereby agrees to furnish and install a four (4) inch backflow device, backflow device vandal cage, and all downstream plumbing from the Department installed four (4) inch service to the Devore production facility located approximately 1,200 feet to the south. The expense for the facilities mentioned above shall be the responsibility of Devore and will remain Devore's property.

4. Devore shall notify the Department of its need for delivery and shall provide an estimate of duration of delivery. Devore will pay the standard rates, published and established by the Department, for any water served through the Department's service connection.
5. Either Party may terminate this Agreement upon sixty (60) days written notice. Alternatively, if either Party materially breaches this Agreement, the Agreement shall terminate immediately upon notice to the breaching Party by the other Party.
6. This Agreement may only be modified in writing and only with the express approval of both Parties.
7. The Parties acknowledge that nothing in this Agreement creates any claim, vested right, property right or water right, and that the delivery and sale of water by the Department creates no claim, vested right, property right or water right by Devore. Each Party acknowledges that the interest created herein is a contingent right to purchase and that such interest is terminable as provided in this Agreement. This Agreement does not convey any title, either to water or distribution facilities, to either Party.
8. This Agreement becomes effective upon execution by both Parties and its Primary Term will run from that date until ten (10) years after. Upon expiration of the Primary Term, the Agreement will automatically extend until such time as either Party provides notice of termination.
9. Nothing contained in this Agreement shall create any rights, duties or obligations as to other parties and there is no intent in execution of this Agreement to create third Party beneficiaries to this Agreement.
10. All notices, requests, demands or other communications required or permitted under this Agreement shall be in writing unless provided otherwise in this Agreement and shall be deemed to have been duly given and received on: (i) the date of service if served personally (ii) on the first day after mailing, if mailed or dispatched by Federal Express, U.S. Express Mail, or other similar overnight courier service, (iii) on the third (3rd) business day after mailing if mailed to the Party to whom notice is to be given by first class mail, registered or certified, postage prepaid, addressed as follows:

To Devore: Devore Mutual Water Company
 18185 Kenwood Avenue
 Devore, CA 92407
 (909) 887-3310

To Department: San Bernardino Municipal Water Department
397 Chandler Place
San Bernardino, CA 92408
(909) 384-5091
(909) 384-5215 (FAX)
Attn: General Manager

DEVORE

Devore Mutual Water Company

By:  _____

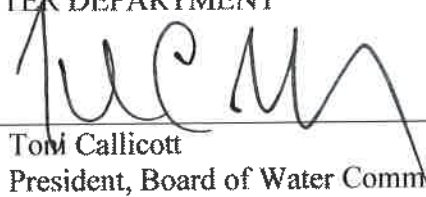
Date: 10-20-2015

By:  _____

Date: 10-22-15


DEPARTMENT

CITY OF SAN BERNARDINO MUNICIPAL
WATER DEPARTMENT

By:  _____
Tom Callicott
President, Board of Water Commissioners

Date: 11-3-15

ATTEST:



Robin Ohama
Deputy City Clerk
Ex-Officio Secretary

Board Mtg.
11/3/15

**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT**

**BOARD OF WATER COMMISSIONERS
STAFF REPORT**

TO: Stacey R. Aldstadt, General Manager

FROM: Miguel J. Guerrero, P.E., Director of Water Utility

SUBJECT: **APPROVAL OF EMERGENCY WATER SUPPLY AGREEMENT
BETWEEN THE CITY OF SAN BERNARDINO MUNICIPAL WATER
DEPARTMENT AND DEVORE MUTUAL WATER COMPANY**

DATE: October 23, 2015

COPIES: Robin Ohama (w/o attach), Terri Willoughby (w/o attach), Greg Gage (w/attach)
Tim Connor (w/attach), Sally Duran (w/attach)

BACKGROUND:

Devore Mutual Water Company (Devore Mutual) is a relatively small water agency servicing over 1,000 residents in the Devore area. Like many water agencies throughout California, Devore Mutual is contending with the extreme drought condition in the state and the water supply issues that result from it. In Devore Mutual's case, declining groundwater levels are affecting production and supply redundancies.

Staff has met with Devore Mutual to discuss the company's need for an emergency water supply in the event that their water supply is reduced or interrupted. Similar to agreements that the Department has made with other neighboring water agencies, staff has negotiated the terms of an Emergency Water Supply Agreement (Agreement) with Devore Mutual.

The Agreement provides that the Department will furnish one service connection through which it can provide water supply to Devore Mutual. "Emergency" is narrowly defined so that it does not create an obligation for delivery without substantial need. No water rights are transferred through the Agreement.

RECOMMENDATION:

Staff recommends that the Board of Water Commissioners make the following motion:

Approve the Emergency Water Supply Agreement between the City of San Bernardino Municipal Water Department and Devore Mutual Water Company and authorize the President to execute the Agreement.

Agenda Item _____

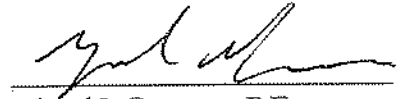
Stacey R. Aldstadt, General Manager

Page 2

October 23, 2015

**SUBJECT: APPROVAL OF EMERGENCY WATER SUPPLY AGREEMENT
BETWEEN THE CITY OF SAN BERNARDINO MUNICIPAL WATER
DEPARTMENT AND DEVORE MUTUAL WATER COMPANY**

Respectfully submitted,



Miguel J. Guerrero, P.E.
Director of Water Utility

MJG:swd
Attach.

H-5: DWR Population Tool Output

Please print this page to a PDF and include as part of your UWMP submittal.

Confirmation Information			
Generated By	Water Supplier Name	Confirmation #	Generated On
Aaron Morland	San Bernardino City Of	5848096549	3/19/2021 12:08:58 PM

Boundary Information		
Census Year	Boundary Filename	Internal Boundary ID
1990	San Bernardino City.kml	684
2000	San Bernardino City.kml	684
2010	San Bernardino City.kml	684
1990	San Bernardino City.kml	684
2000	San Bernardino City.kml	684
2010	San Bernardino City.kml	684
1990	San Bernardino City.kml	684
2000	San Bernardino City.kml	684
2010	San Bernardino City.kml	684
1990	San Bernardino City.kml	684
2000	San Bernardino City.kml	684
2010	San Bernardino City.kml	684

Baseline Period Ranges

10 to 15-year baseline period

Number of years in baseline period:

Year beginning baseline period range:

Year ending baseline period range¹: 2008

5-year baseline period

Year beginning baseline period range:

Year ending baseline period range²: 2007

¹ The ending year must be between December 31, 2004 and December 31, 2010.

² The ending year must be between December 31, 2007 and December 31, 2010.

Persons-Per-SF Connection and Persons-Per-MF/GQ Connection

Year	Census Block Group Level	Census Block Level			# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection
	% Population in SF Housing	Service Area Population	Population in SF Housing (calculated)	Population in MF/GQ Housing (calculated)				
1990	68.78%	151,071	103,914	47,157			3.22	12.75
1991	-	-	-	-	-	-	3.25	13.00
1992	-	-	-	-	-	-	3.29	13.25
1993	-	-	-	-	-	-	3.32	13.50
1994	-	-	-	-	-	-	3.35	13.74
1995	-	-	-	-	-	-	3.39	13.99
1996	-	-	-	-	-	-	3.42	14.24
1997	-	-	-	-	-	-	3.46	14.49
1998	-	-	-	-	-	-	3.49	14.74
1999	-	-	-	-	-	-	3.52	14.98
2000	72.63%	165,347	120,094	45,253	33757	2971	3.56	15.23
2001	-	-	-	-	-	-	3.59	15.48
2002	-	-	-	-	-	-	3.63	15.73
2003	-	-	-	-	-	-	3.66	15.97
2004	-	-	-	-	-	-	3.70	16.22
2005	-	-	-	-	-	-	3.73	16.47
2006	-	-	-	-	-	-	3.76	16.72
2007	-	-	-	-	-	-	3.80	16.97
2008	-	-	-	-	-	-	3.83	17.21
2009	-	-	-	-	-	-	3.87	17.46
2010	73.03%	186,066	135,893	50,173	34886	2833	3.90	17.71
2011	-	-	-	-	-	-	3.56	15.23
2012	-	-	-	-	-	-	3.56	15.23
2013	-	-	-	-	-	-	3.56	15.23
2014	-	-	-	-	-	-	3.56	15.23
2015	-	-	-	-	-	-	3.56	15.23
2020	-	-	-	-	-	-	4.23 *	20.19 *

Population Using Persons-Per-SF Connection and Persons-Per-MF/GQ Connection

Year		# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection	SF Population	MF/GQ Population	Total Population
10 to 15 Year Baseline Population Calculations								
Year 1	1999			3.52	14.98			
Year 2	2000	33757	2971	3.56	15.23	120,094	45,253	165,347
Year 3	2001	34123	2965	3.59	15.48	122,638	45,892	168,530
Year 4	2002	33610	2849	3.63	15.73	121,937	44,803	166,740
Year 5	2003	33745	2905	3.66	15.97	123,574	46,404	169,979
Year 6	2004	34389	2926	3.70	16.22	127,102	47,466	174,567
Year 7	2005	34697	2927	3.73	16.47	129,420	48,208	177,628
Year 8	2006	35853	2952	3.76	16.72	134,951	49,352	184,302
Year 9	2007	35360	2927	3.80	16.97	134,297	49,659	183,957
Year 10	2008	35127	2856	3.83	17.21	134,607	49,163	183,770
5 Year Baseline Population Calculations								
Year 1	2003	33745	2905	3.66	15.97	123,574	46,404	169,979
Year 2	2004	34389	2926	3.70	16.22	127,102	47,466	174,567
Year 3	2005	34697	2927	3.73	16.47	129,420	48,208	177,628
Year 4	2006	35853	2952	3.76	16.72	134,951	49,352	184,302
Year 5	2007	35360	2927	3.80	16.97	134,297	49,659	183,957
2020 Compliance Year Population Calculations								
2020		35952	2917	4.23 *	20.19 *	151,934	58,896	210,830

Hide Print Confirmation

QUESTIONS / ISSUES? CONTACT THE WUEdata HELP DESK
 MWELo QUESTIONS / ISSUES? CONTACT THE MWELo HELP DESK

H-6: DWR Tables

2-1R | Public Water Systems

STATUS:

NOTES:

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020
CA3610039	SAN BERNARDINO CITY	45,413	42,182
Total:		45,413	42,182

2-2 | Public Water Systems

STATUS: Published

NOTES: -

Type of Plan	Member of RUWMP	Member of Regional Alliance	Name of RUWMP or Regional Alliance
Regional UWMP (RUWMP)			Upper Santa Ana River Integrated Regional Urban Water Management Plan

2-3 | Agency Identification

STATUS:

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
Retailer	Calendar Years	DD	MM	Acre Feet (AF)

Conversion to Gallons: 325851
Conversion to Gallons per Day: 892.7425

2-4R | Water Supplier Information Exchange

STATUS: Published

NOTES: -

Wholesale Water Supplier Name
San Bernardino Valley Municipal Water District

3-1R | Current & Projected Population

STATUS:

NOTES:

Population Served	2020	2025	2030	2035	2040	2045
Total	210,830	217,221	223,806	230,591	236,206	241,958
Total	210,830	217,221	223,806	230,591	236,206	241,958

4-1R | Actual Demands for Water

STATUS:

NOTES:

Use Type	Additional Description	Level of Treatment When Delivered	2020 Volume
Single Family	Residential-Single Family	Drinking Water	18,159
Multi-Family	Residential-Multi-Family	Drinking Water	5,661
Industrial	Commercial/Institutional+Municipal	Drinking Water	6,142
Landscape	Landscape Irrigation	Drinking Water	5,962
Other	Fire Service	Drinking Water	27
Losses	Nonrevenue	Drinking Water	4,155
Sales/Transfers/Exchanges to Other Agencies	Sales to Other Agencies	Drinking Water	2
Landscape	WRP Dewatering Wells	Raw Water	2,075
Total:			42,182

4-2R | Projected Demands for Water

STATUS:

NOTES: -

Use Type	Additional Description	Projected Water Use				
		2025	2030	2035	2040	2045
Single Family	Residential-Single Family	18,710	19,260	19,811	20,253	20,695
Multi-Family	Residential-Multi-Family	5,832	6,004	6,175	6,313	6,451
Commercial	Commercial/Institutional+Municipal	6,328	6,514	6,701	6,850	7,000
Landscape	Landscape Irrigation	6,143	6,323	6,504	6,649	6,795
Other	Fire Service	28	28	29	30	30
Losses	Nonrevenue	4,074	4,194	4,314	4,411	4,507
Landscape	WRP Dewatering Wells	-	-	-	-	-
Total:		41,115	42,325	43,534	44,506	45,478

4-3R | Total Gross Water Use

STATUS: Published

NOTES: -

	2020	2025	2030	2035	2040	2045
Potable and Raw Water From Table 4-1R and 4-2R	42,182	41,115	42,325	43,534	44,506	45,478
Recycled Water Demand* From Table 6-4R	-	1,133	1,133	1,133	1,133	1,133
Total Water Use:	42,182	42,248	43,458	44,667	45,639	46,611

4-4R | 12 Month Water Loss Audit Reporting

STATUS:

NOTES: -

Report Period Start Date		Volume of Water Loss*
MM	YYYY	
1	2016	3,492
1	2017	4,056
1	2018	3,821
1	2019	3,507
1	2020	4,155 (Estimate)

4-5R | Inclusion in Water Use Projections

STATUS: Published

NOTES: -

Are Future Water Savings Included in Projections? Refer to Appendix K of UWMP Guidebook.	No
Are Lower Income Residential Demands Included in Projections?	Yes

5-1R | Baselines & Targets Summary

STATUS:

NOTES: -

Baseline Period	Start Year	End Year	Average Baseline GPCD*	Confirmed 2020 Target *
10-15 Year	1999	2008	252	203
5 Year	2003	2007	255	

*All values are in Gallons per Capita per Day (GPCD)

5-2R | 2020 Compliance

STATUS:

NOTES: -

Actual 2020 GPCD*	Optional Adjustments to 2020 GPCD					2020 GPCD* (Adjusted if applicable)	Supplier Achieved Targeted Reduction in 2020
	Extraordinary Events*	Economic Adjustment*	Weather Normalization*	Total Adjustments*	Adjusted 2020 GPCD*		
179	0	0	0	0	0	0	Yes

*All values are in Gallons per Capita per Day (GPCD)

6-1R | Groundwater Volume Pumped

STATUS:

NOTES:

Select One						
Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Bunker Hill	37,276	39,331	38,897	37,840	42,182
Total:		37,276	39,331	38,897	37,840	42,182

6-2R | Wastewater Collected within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated	Wastewater Volume Collected from UWMP Service Area in 2020	Name of Wastewater Agency Receiving Collected Wastewater	Wastewater Treatment Plant Name	Wastewater Treatment Plant Located within UWMP Area	WWTP Operation Contracted to a Third Party
City of San Bernardino	Metered	14,415	City of San Bernardino	San Bernardino Water Reclamation Plant (WRP)	Yes	No
Total:		14,415				

6-3R | Wastewater Treatment & Discharge Within Service Area in 2020

STATUS:

NOTES:

The supplier will complete the table.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number	Method of Disposal	Plant Treats Wastewater Generated Outside the Service Area	Treatment Level	2020 Volumes				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
San Bernardino Water Reclamation Plant	Rapid Infiltration/Extraction (RIX) Plant	Flow to RIX		Other	Yes	Secondary, Disinfected - 23	23,763	23,763	-	-	-
Total:							23,763	23,763	-	-	-

6-4R | Recycled Water Direct Beneficial Uses Within Service Area

STATUS:

NOTES:

The supplier will complete the table.										
Name of Supplier Producing (Treating) the Recycled Water:					City of San Bernardino Municipal Water Department					
Name of Supplier Operating the Recycled Water Distribution System:					City of San Bernardino Municipal Water Department					
Supplemental Volume of Water Added in 2020:					0%					
Source of 2020 Supplemental Water:					0%					
Beneficial Use Type	Potential Beneficial Uses of Recycled Water	Amount of Potential Uses of Recycled Water	General Description of 2020 Uses	Level of Treatment	2020	2025	2030	2035	2040	2045
Landscape Irrigation (excludes golf courses)				Tertiary		1,133	1,133	1,133	1,133	1,133
Golf Course Irrigation										
Commercial Use										
Industrial Use										
Geothermal and Other Energy Production										
Seawater Intrusion Barrier										
Recreational Impoundment										
Wetlands or Wildlife Habitat										
Groundwater Recharge (IPR)*										
Surface Water Augmentation (IPR)*										
Direct Potable Reuse										
Total:					-	1,133	1,133	1,133	1,133	1,133
Groundwater Recharge (IPR)*	Bunker Hill - Recycled Water Recharge			Advanced	-	4,472	4,472	6,714	8,956	8,956

*IPR - Indirect Potable Reuse

6-5R | 2015 Recycled Water Use Projection Compared to 2020 Actual

STATUS: Published

NOTES: 2015 water budget projected 2800 afy of recycled water sales, which is shown as Other, and 2800 afy of recycled water for landscape

The supplier will complete the table.

Use Type	2015 Projection for 2020	2020 Actual Use
Agricultural Irrigation		
Landscape Irrigation (excludes golf courses)	2,800	-
Golf Course Irrigation		
Commercial Use		
Industrial Use		
Geothermal and Other Energy Production		
Seawater Intrusion Barrier		
Recreational Impoundment		
Wetlands or Wildlife Habitat		
Groundwater Recharge (IPR)*		
Surface Water Augmentation (IPR)*		
Direct Potable Reuse		
Other	2,800	-
Total:	5,600	-

6-6R | Methods to Expand Future Recycled Water Use

STATUS:

NOTES: Gradual increase from 2 MGD to 9 MGD by 2040, per RW data provided by SBMWD on Teams

The supplier will complete the table below.			
Name of Action	Description	Planned Implementation Year	Expected Increase of Recycled Water Use
Water Reclamation Plant Upgrade	Water reclamation facility upgrade and expansion	2022	2,242
Water Reclamation Plant Upgrade	Water reclamation facility upgrade and expansion	2025	3,363
Water Reclamation Plant Upgrade	Water reclamation facility upgrade and expansion	2035	2,242
Water Reclamation Plant Upgrade	Water reclamation facility upgrade and expansion	2040	2,242
Total:			10,089

6-7R | Expected Future Water Supply Projects or Programs

STATUS:

NOTES: -

The supplier will complete the table.						
Name of Future Projects or Programs	Joint Project with Other Suppliers	Agency Name	Description	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply to Supplier
Water Reclamation Plant Upgrade	Yes	City of Colton, City of Loma Linda	Water reclamation facility upgrade and expansion	2022	All Year Types	2,242
Water Reclamation Plant Upgrade	Yes	City of Colton, City of Loma Linda	Water reclamation facility upgrade and expansion	2025	All Year Types	3,363
Water Reclamation Plant Upgrade	Yes	City of Colton, City of Loma Linda	Water reclamation facility upgrade and expansion	2035	All Year Types	2,242
Water Reclamation Plant Upgrade	Yes	City of Colton, City of Loma Linda	Water reclamation facility upgrade and expansion	2040	All Year Types	2,242

6-8R | Actual Water Supplies

STATUS:

NOTES: -

Water Supply	Additional Detail on Water Supply	2020		
		Actual Volume	Water Quality	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	40,107	Drinking Water	
Groundwater (not desalinated)	Bunker Hill	2,075	Other Non-Potable Water	
Total:		42,182		-

6-8DS | Source Water Desalination

STATUS:

NOTES:

Neither groundwater nor surface water are reduced in salinity prior to distribution. The supplier will not complete the table.

6-9R | Projected Water Supplies

STATUS:

NOTES:

Water Supply	Additional Detail on Water Supply	Projected Water Supply									
		2025		2030		2035		2040		2045	
		Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield	Reasonably Available Volume	Total Right or Safe Yield
Groundwater (not desalinated)	Bunker Hill	42,980		44,371		43,521		42,396		43,514	
Recycled Water	Bunker Hill - Recycled Water Recharge	4,472		4,472		6,714		8,956		8,956	
Recycled Water	Recycled Water - Direct	1,133		1,133		1,133		1,133		1,133	
Total:		48,585	-	49,976	-	51,368	-	52,485	-	53,603	-

7-1R | Basis of Water Year Data (Reliability Assessment)

STATUS:

NOTES:

Quantification of available supplies is provided in this table as either volume only, percent only, or both.

Year Type	Base Year	Available Supply if Year Type Repeats	
		Volume Available	Percent of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

7-2R | Normal Year Supply and Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals From Table 6-9R	48,585	49,976	51,368	52,485	53,603
Demand Totals From Table 4-3R	42,248	43,458	44,667	45,639	46,611
Difference:	6,337	6,519	6,700	6,846	6,992

7-3R | Single Dry Year Supply & Demand Comparison

STATUS:

NOTES: -

	2025	2030	2035	2040	2045
Supply Totals	53,444	54,974	56,504	57,734	58,963
Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:	6,971	7,171	7,370	7,530	7,691

7-4R | Multiple Dry Years Supply & Demand Comparison

STATUS:

NOTES: -

		2025	2030	2035	2040	2045
First Year	Supply Totals	53,444	54,974	56,504	57,734	58,963
	Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:		6,971	7,171	7,370	7,530	7,691
Second Year	Supply Totals	53,444	54,974	56,504	57,734	58,963
	Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:		6,971	7,171	7,370	7,530	7,691
Third Year	Supply Totals	53,444	54,974	56,504	57,734	58,963
	Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:		6,971	7,171	7,370	7,530	7,691
Fourth Year	Supply Totals	53,444	54,974	56,504	57,734	58,963
	Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:		6,971	7,171	7,370	7,530	7,691
Fifth Year	Supply Totals	53,444	54,974	56,504	57,734	58,963
	Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:		6,971	7,171	7,370	7,530	7,691
Sixth Year	Supply Totals	53,444	54,974	56,504	57,734	58,963
	Demand Totals	46,473	47,803	49,134	50,203	51,272
Difference:		6,971	7,171	7,370	7,530	7,691

7-5 | Five-Year Drought Risk Assessment Tables to Address Water Code Section 10635(b)

STATUS:

NOTES: -

2021	Gross Water Use	47,807
	Total Supplies	54,978
	Surplus/Shortfall without WSCP Action	7,171
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	7,171
	Resulting Percent Use Reduction from WSCP Action	0%
2022	Gross Water Use	49,216
	Total Supplies	56,599
	Surplus/Shortfall without WSCP Action	7,382
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	7,382
	Resulting Percent Use Reduction from WSCP Action	0%
2023	Gross Water Use	50,625
	Total Supplies	58,219
	Surplus/Shortfall without WSCP Action	7,594
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	7,594
	Resulting Percent Use Reduction from WSCP Action	0%
2024	Gross Water Use	52,035
	Total Supplies	59,840
	Surplus/Shortfall without WSCP Action	7,805
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	7,805
	Resulting Percent Use Reduction from WSCP Action	0%
2025	Gross Water Use	53,444
	Total Supplies	61,460
	Surplus/Shortfall without WSCP Action	8,017
	Planned WSCP Actions (Use Reduction and Supply Augmentation)	
	WSCP (Supply Augmentation Benefit)	
	WSCP (Use Reduction Savings Benefit)	
	Revised Surplus/Shortfall	8,017
	Resulting Percent Use Reduction from WSCP Action	0%

8-1 | Water Shortage Contingency Plan Levels

STATUS:

NOTES: -

Shortage Level	Percent Shortage Range ¹ (Numerical Value as a Percent)	Water Shortage Condition
1	Up to 10%	Normal Conditions (SBMWD Stage 1) - Incurs no financial penalties but requires commitment to a water conservation program.
2	Up to 20%	Mandatory Restrictions (SBMWD Stage 2) - Will impose a five percent reduction in water usage and assess financial penalties on usage in excess of those amounts.
3	Up to 30%	Extreme Mandatory Restrictions (SBMWD Stage 2A) - Will impose a fifteen percent reduction in water usage and assess financial penalties on usage in excess of those amounts.
4	Up to 40%	Water shortage Emergency (SBMWD Stage 3) - Will impose up to a fifty percent reduction in water usage and assess financial penalties on usage in excess of those amounts.
5	Up to 50%	Water shortage Emergency (SBMWD Stage 3) - Will impose up to a fifty percent reduction in water usage and assess financial penalties on usage in excess of those amounts.
6	>50%	Water shortage Emergency (SBMWD Stage 3) - Will impose up to a fifty percent reduction in water usage and assess financial penalties on usage in excess of those amounts.

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

8-2 | Demand Reduction Actions

STATUS:

NOTES:

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap?	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
1	Expand Public Information Campaign	0-20%	Provide reminder notices regarding noted water waste and offer community outreach programs	No
2	Expand Public Information Campaign	0-20%	Increase advertisement of conservation measures; Maintain a message center for reporting water waste; Determine course of action to remediate reported water waste	No
2	Other	0-1%	Commercial and industrial facility education on water use.	No
2	Implement or Modify Drought Rate Structure or Surcharge	0-5%	10 percent rate increase on customers that don't fulfill 5 percent reduction	Yes
2	CII - Other CII restriction or prohibition	0-1%	Large water use commercial and industrial facilities shall, upon request of the General Manager, provide the SBMWD with a plan to conserve water at their facilities. The SBMWD will provide these facilities with information regarding the average monthly water use by the facility for the last two year period. The facility will be expected to provide the SBMWD with a plan to conserve or reduce the amount of water used by that percentage deemed by the SBMWD to be necessary under the circumstances.	Yes
2	Landscape - Limit landscape irrigation to specific days	0-5%	Irrigation shall be limited to four days per week on Mondays, Wednesdays, Fridays, and Sundays only	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	Irrigation shall be only allowed between the off-peak hours of 6:00 pm through 8:00 am	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	No water of outdoor landscapes that cause excessive runoff	Yes

2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	No washing down driveways, sidewalks, or other hardscapes	Yes
2	Other - Require automatic shut of hoses	0-1%	The washing of cars, trucks or other vehicles is not permitted except with a hose equipped with an automatic shut-off device, or a commercial facility so designated for vehicle washing purposes.	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	All leaks shall be corrected within seventy-two (72) hours of Department notification	Yes
2	Other water feature or swimming pool restriction	0-1%	No use of fountains that use potable water, unless the water is recirculated	Yes
2A	Implement or Modify Drought Rate Structure or Surcharge	0-15%	20 percent rate increase on customers that don't fulfill 15 percent reduction	Yes
2A	Expand Public Information Campaign	0-20%	Increase advertisement of conservation measures; Maintain a message center for reporting water waste; Determine course of action to remediate reported water waste	Yes
2A	Landscape - Limit landscape irrigation to specific days	0-5%	Irrigation shall be limited to three days per week; Mondays, Wednesdays, and Fridays only	Yes
2A	Landscape - Other landscape restriction or prohibition	0-5%	Maximum irrigation time of 15 minutes per station per designated irrigation day	Yes
2A	Landscape - Other landscape restriction or prohibition	0-5%	Irrigation of ornamental turn on public street medians is prohibited	Yes
2A	Landscape - Other landscape restriction or prohibition	0-5%	Irrigation is prohibited for a full 48 hours after a significant precipitation event (rainfall in excess of 1/8") as measured by SBMWD's rain gauge	Yes
2A	Other - Prohibit use of potable water for construction and dust control	0-1%	Use of potable water outside of new residential home and commercial/industrial construction that is not delivered by drip or micro-spray systems is prohibited	Yes
2A	CII - Restaurants may only serve water upon request	0-1%	The serving of drinking water other than upon request is prohibited, in eating or drinking establishments including but not limited to restaurants, hotels, cafes, cafeterias, bars, or any other public place where food or drink are served	Yes

2A	CII - Lodging establishment must offer opt out of linen service	0-1%	All hotels/motels shall provide their guests with the option of choosing not to have towels and linens laundered daily. The hotel/motel must prominently display notice of this option in each bathroom using clear and easy language.	Yes
3	Implement or Modify Drought Rate Structure or Surcharge	0-50%	100 percent rate increase on customers that don't fulfill 50 percent reduction	Yes
3	Expand Public Information Campaign	0-20%	Increase advertisement of conservation measures; Maintain a message center for reporting water waste; Determine course of action to remediate reported water waste	No
3	Landscape - Prohibit certain types of landscape irrigation	0-5%	Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.	Yes
3	Other - Prohibit use of potable water for construction and dust control	0-1%	No new construction meter permits shall be issued by SBMWD. All existing construction meters shall be removed and/or locked out of service.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water may be prohibited.	Yes
3	Landscape - Limit landscape irrigation to specific times	0-5%	Irrigation shall be allowed only between the off-peak hours of 8:00 pm through 6:00 am; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency	Yes
3	Landscape - Limit landscape irrigation to specific days	5-20%	Irrigation shall be limited to two days per week, on Mondays and Thursdays; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency	Yes

8-3R | Supply Augmentation & Other Actions

STATUS:

NOTES:

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
3	Exchanges	0-100%	SBMWD has water exchange and transfer agreements with several of the surrounding agencies on an as-needed basis.

10-1R | Notification to Cities & Counties

STATUS:

NOTES:

City	60 Day Notice	Notice of Public Hearing	Other
City of San Bernardino	Yes	Yes	
County	60 Day Notice	Notice of Public Hearing	Other
San Bernardino County	Yes	Yes	
Other	60 Day Notice	Notice of Public Hearing	Other

O-1B | Recommended Energy Intensity - Total Utility Approach

Urban Water Supplier	San Bernardino Municipal Water Department		Reporting Period Start Date	1/1/2020	
Water Delivery Product	Retail Potable Deliveries		Reporting Period End Date	12/30/2020	
	Urban Water Supplier Operational Control				
	Sum of all Water Management Process		Non-Consequential Hydropower		
	Total Utility		Hydropower		Net Utility
Volume of Water Entering Process (AF)	42182		0		42182
Energy Consumed (kWh)	33348243		0		33348243
Energy Intensity (kWh/AF)	790.6		0.0		790.6
Data Quality	Metered Data	Quantity of Self-Generated Renewable Energy		0.0 kWh	
Data Quality Narrative	Energy is quantified monthly by meters from EPA accounts, SBWD accounts, and MT. Vernon locations.				
Water Supply Narrative	San Bernardino Municipal Water Department relies solely on groundwater from wells in the SBBA.				

H-7: SBX7-7 Forms

SB X7-1 | Baseline Period Ranges

STATUS: Published

NOTES: -

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	49,911	Acre Feet (AF)
	2008 total volume of delivered recycled water	0	Acre Feet (AF)
	2008 recycled water as a percent of total deliveries	0	Percent
	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	

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

²The 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.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

SB X7-2 | Method for Population Estimates

STATUS: Published

NOTES: -

Method for Population Estimates	
No	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2010 - 2020) when available
No	2. Persons-per-Connection Method
Yes	3. DWR Population Tool
No	4. Other DWR recommends pre-review

SB X7-3 | Service Area Population

STATUS:

NOTES: -

Year		Population
10 to 15 Year Baseline Population		
Year 1	1999	163,861
Year 2	2000	165,347
Year 3	2001	168,530
Year 4	2002	166,740
Year 5	2003	169,979
Year 6	2004	174,567
Year 7	2005	177,628
Year 8	2006	184,302
Year 9	2007	183,957
Year 10	2008	183,942
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	169,979
Year 2	2004	174,567
Year 3	2005	177,628
Year 4	2006	184,302
Year 5	2007	183,957
2020 Compliance Year Population		
2020		210,830

SB X7-4 | Annual Gross Water Use

STATUS:

NOTES: -

Baseline Year <i>From SB X7-3</i>	Volume Into Distribution System <i>From SB X7-4A</i>	Deductions					Annual Gross Water Use
		Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water <i>From SB X7-4B</i>	Water Delivered for Agricultural Use	Process Water <i>From SB X7-4D</i>	
10 to 15 Year Baseline - Gross Water Use							
Year 1	1,999	48,939		0		-	48,939
Year 2	2,000	48,223	1,730	0		-	46,493
Year 3	2,001	46,456	1,837	0		-	44,619
Year 4	2,002	48,504	1,252	0		-	47,252
Year 5	2,003	48,522	622	0		-	47,900
Year 6	2,004	50,223	159	0		-	50,064
Year 7	2,005	48,138	159	0		-	47,979
Year 8	2,006	57,392	1,199	0		-	56,193
Year 9	2,007	59,594	7,674	0		-	51,920
Year 10	2,008	57,237	7,326	0		-	49,911
Year 11	0	0		0		-	0
Year 12	0	0		0		-	0
Year 13	0	0		0		-	0
Year 14	0	0		0		-	0
Year 15	0	0		0		-	0
10 - 15 year baseline average gross water use:							49,127
5 Year Baseline - Gross Water Use							
Year 1	2,003	48,522	622	0		-	47,900
Year 2	2,004	50,223	159	0		-	50,064
Year 3	2,005	48,138	159	0		-	47,979
Year 4	2,006	57,392	1,199	0		-	56,193
Year 5	2,007	59,594	7,674	0		-	51,920
5 year baseline average gross water use:							50,811
2020 Compliance Year - Gross Water Use							
2020		42,182		0		-	42,182

SB X7-4A | Volume Entering the Distribution System(s)

STATUS:

NOTES: -

The supplier's own water source				
Name of Source:		BunkerHill/SBBA		
Baseline Year <i>From SB X7-3</i>	Volume Entering Distribution System	Meter Error Adjustment (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,999	48,939		48,939
Year 2	2,000	48,223		48,223
Year 3	2,001	46,456		46,456
Year 4	2,002	48,504		48,504
Year 5	2,003	48,522		48,522
Year 6	2,004	50,223		50,223
Year 7	2,005	48,138		48,138
Year 8	2,006	57,392		57,392
Year 9	2,007	59,594		59,594
Year 10	2,008	57,237		57,237
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	48,522		48,522
Year 2	2,004	50,223		50,223
Year 3	2,005	48,138		48,138
Year 4	2,006	57,392		57,392
Year 5	2,007	59,594		59,594
2020 Compliance Year - Water into Distribution System				
2020		42,182		42,182

SB X7-5 | Gallons Per Capita Per Day (GPCD)

STATUS:

NOTES: -

Baseline Year From SB X7-3		Service Area Population From SB X7-3	Annual Gross Water Use From SB X7-4	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1999	163,861	48,939	267
Year 2	2000	165,347	46,493	251
Year 3	2001	168,530	44,619	236
Year 4	2002	166,740	47,252	253
Year 5	2003	169,979	47,900	252
Year 6	2004	174,567	50,064	256
Year 7	2005	177,628	47,979	241
Year 8	2006	184,302	56,193	272
Year 9	2007	183,957	51,920	252
Year 10	2008	183,942	49,911	242
Year 11	0	0	0	-
Year 12	0	0	0	-
Year 13	0	0	0	-
Year 14	0	0	0	-
Year 15	0	0	0	-
10-15 Year Average Baseline GPCD:				252
5 Year Baseline GPCD				
Year 1	2003	169,979	47,900	252
Year 2	2004	174,567	50,064	256
Year 3	2005	177,628	47,979	241
Year 4	2006	184,302	56,193	272
Year 5	2007	183,957	51,920	252
5 Year Average Baseline GPCD:				255
2020 Compliance Year GPCD				
2020		210,830	42,182	179

SB X7-6 | Gallons per Capita per Day

STATUS: Published

NOTES: -

Summary from Table SB X7-7 Table 5	
10-15 Year Baseline GPCD	252
5 Year Baseline GPCD	255
2020 Compliance Year GPCD	179

SB X7-7 | 2020 Target Method

STATUS:

Published

NOTES:

-

Select Only One	
No	Method 1. Complete SB X7-7A below.
No	Method 2. Complete SB X7-7B, SB X7-7C, and SB X7-7D below.
No	Method 3. Complete SB X7-E below.
Yes	Method 4. Complete Method 4 Calculator below.

SB X7-7A | 2020 Target Method 1

20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
252	202

SB X7-7E | 2020 Target Method 3

Select All that Apply	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets
		North Coast	137
		North Lahontan	173
		Sacramento River	176
		San Francisco Bay	131
		San Joaquin River	174
		Central Coast	123
		Tulare Lake	188
		South Lahontan	170
		South Coast	149
		Colorado River	211
Target (If more than one region is selected, this value is calculated.)			

SB X7-7F | Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD From SB X7-5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
255	242	203	203
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD. ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

SB X7-8 | 2015 Interim Target GPCD

STATUS:

NOTES:

Confirmed 2020 Target From SB X7-7-F	10-15 year Baseline GPCD From SB X7-5	2015 Interim Target GPCD
203	252	228

SB X7-9 | 2020 Compliance

STATUS:

NOTES:

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments (in GPCD)					2020 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment	Total Adjustments	Adjusted 2020 GPCD		
179	203				0	179	179	YES

H-8: AWWA Water Audits



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association

Water Audit Report for: **San Bernardino Municipal Water Department (3610039)**

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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="6"/>	<input type="text" value="36,302.946"/>	acre-ft/yr
Water imported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="0.000"/>	acre-ft/yr
<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="0.000"/>	<input type="text" value="0.000"/>	acre-ft/yr
<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="0.000"/>	<input type="text" value="0.000"/>	acre-ft/yr

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

WATER SUPPLIED: acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="32,654.495"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="6"/>	<input type="text" value="156.000"/>	acre-ft/yr

AUTHORIZED CONSUMPTION: acre-ft/yr

Click here: for help using option buttons below

Pcnt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt: Value: acre-ft/yr

acre-ft/yr

acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

3,492.451 acre-ft/yr

Apparent Losses

Unauthorized consumption: acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="2"/>	<input type="text" value="1,009.933"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="2"/>	<input type="text" value="81.636"/>	acre-ft/yr

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

Apparent Losses: acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

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

WATER LOSSES: acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="8"/>	<input type="text" value="753.1"/>	miles
Number of active AND inactive service connections:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="47,935"/>	
Service connection density:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="6"/>	<input type="text" value="64"/>	conn./mile main

Are customer meters typically located at the curbstop or property 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: psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="\$32,241,215"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="4"/>	<input type="text" value="\$1.28"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="4"/>	<input type="text" value="\$118.42"/>	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 57 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)**



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WAS v5.0

American Water Works Association.

Click to access definition
 Click to add a comment

Water Audit Report for:
Reporting Year:

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: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/> <input type="button" value="?"/> 6	<input type="text" value="38,477.991"/>	acre-ft/yr
Water imported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	<input type="text" value="0.000"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

<input type="button" value="+"/> <input type="button" value="?"/> 3	<input type="text" value="0.00%"/>	<input type="radio"/> <input type="radio"/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="?"/>	<input type="text" value=""/>	<input type="radio"/> <input type="radio"/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="?"/>	<input type="text" value=""/>	<input type="radio"/> <input type="radio"/>	<input type="text" value=""/>	acre-ft/yr

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

WATER SUPPLIED: acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/> <input type="button" value="?"/> 7	<input type="text" value="34,326.159"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/> <input type="button" value="?"/> n/a	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/> <input type="button" value="?"/> 5	<input type="text" value="96.195"/>	acre-ft/yr

Click here: for help using option buttons below

Pcnt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

acre-ft/yr

Apparent Losses

Unauthorized consumption: acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/> <input type="button" value="?"/> 3	<input type="text" value="1,061.634"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/> <input type="button" value="?"/> 5	<input type="text" value="85.815"/>	acre-ft/yr

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

Apparent Losses: acre-ft/yr

Pcnt: Value:

Real Losses (Current Annual Real Losses or CARL)

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

WATER LOSSES: acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/> <input type="button" value="?"/> 8	<input type="text" value="755.0"/>	miles
Number of active AND inactive service connections:	<input type="button" value="+"/> <input type="button" value="?"/> 8	<input type="text" value="48,162"/>	
Service connection density:	<input type="button" value="?"/>	<input type="text" value="64"/>	conn./mile main

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

Average length of customer service line has been set to zero and a data grading score of 10 has been applied (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average operating pressure: 6 psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/> <input type="button" value="?"/> 10	<input type="text" value="\$34,131,179"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 8	<input type="text" value="\$1.47"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/> <input type="button" value="?"/> 5	<input type="text" value="\$202.82"/>	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 63 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: Variable production cost (applied to Real Losses)



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: **San Bernardino Municipal Water Department**
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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	+ ?	7	38,766.970	acre-ft/yr
Water imported:	+ ?	n/a	0.000	acre-ft/yr
Water exported:	+ ?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:		
+ ?	3	-0.89%	[●] [○]
+ ?			[●] [○]
+ ?			[●] [○]

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

WATER SUPPLIED: 39,115.094 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	5	35,196.752	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled unmetered:	+ ?	5	97.788	acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:	
[○] [●]	97.788	acre-ft/yr

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: 35,294.539 acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

Apparent Losses

Unauthorized consumption: + ? **97.788** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	5	1,088.559	acre-ft/yr
Systematic data handling errors:	+ ?	5	87.992	acre-ft/yr

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

Apparent Losses: 1,274.339 acre-ft/yr

Pcnt:	Value:	
0.25%	[●] [○]	acre-ft/yr

3.00%	[●] [○]	acre-ft/yr
0.25%	[●] [○]	acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **2,546.216** acre-ft/yr

WATER LOSSES: 3,820.555 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 3,918.343 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	8	759.3	miles
Number of active AND inactive service connections:	+ ?	7	47,649	
Service connection density:	?		63	conn./mile main

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

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** 82.2 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$29,086,462	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	8	\$1.50	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	6	\$154.18	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 66 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: San Bernardino Municipal Water Department
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: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:		7	35,968.783	acre-ft/yr
Water imported:		n/a	0.000	acre-ft/yr
Water exported:		5	1.510	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
	<input type="text"/>	
	<input type="text"/>	
	<input type="text"/>	

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

WATER SUPPLIED: 36,455.801 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:		7	32,493.240	acre-ft/yr
Billed unmetered:		n/a	0.000	acre-ft/yr
Unbilled metered:		n/a	0.000	acre-ft/yr
Unbilled unmetered:		5	455.698	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 32,948.938 acre-ft/yr

Click here: for help using option buttons below

Pcnt: Value: acre-ft/yr

1.25%

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption) 3,506.863 acre-ft/yr

Apparent Losses

Unauthorized consumption: 91.140 acre-ft/yr

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

Customer metering inaccuracies:		3	1,004.946	acre-ft/yr
Systematic data handling errors:		5	81.233	acre-ft/yr

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

Apparent Losses: 1,177.318 acre-ft/yr

Pcnt: Value: acre-ft/yr

0.25%

3.00%

0.25%

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 2,329.545 acre-ft/yr

WATER LOSSES: 3,506.863 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 3,962.561 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:		8	728.0	miles
Number of active AND inactive service connections:		7	46,183	
Service connection density:			63	conn./mile main

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

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

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

Average operating pressure: 82.2 psi

COST DATA

Total annual cost of operating water system:		10	\$28,387,193	\$/Year
Customer retail unit cost (applied to Apparent Losses):		8	\$1.50	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):		6	\$157.88	\$/acre-ft <input type="checkbox"/> 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: Customer metering inaccuracies
- 3: Billed metered

H-9: Water Shortage Contingency Plan

This appendix includes the current Water Shortage Contingency Plan (WSCP) at the time of adoption of the 2020 IRWUMP, however the WSCP may be amended separately in the future. Contact SBMWD to obtain the most current version of the WSCP.

San Bernardino Municipal Water Department Water Shortage Contingency Plan

JUNE 2021

San Bernardino Municipal Water Department



SAN BERNARDINO MUNICIPAL WATER
DEPARTMENT



Water Shortage Contingency Plan

San Bernardino Municipal
Water Department

JUNE 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
LHMP	Local Hazard Mitigation Plan
RRA	Risk and Resilience Assessment
SBMWD	San Bernardino Municipal Water Department
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

San Bernardino Municipal Water Department

This Water Shortage Contingency Plan is a strategic plan that the San Bernardino Municipal Water Department uses to prepare for and respond to water shortages.

The Water Shortage Contingency Plan (WSCP) is a strategic plan that San Bernardino Municipal Water Department (SBMWD) uses to prepare for and respond to foreseeable and unforeseeable water shortages. A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that SBMWD will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help SBMWD maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with SBMWD's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Service Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes SBMWD's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage stages and response actions.
3. **Water Shortage Stages:** Establishes water shortage stages to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant SBMWD the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if additional shortage response actions should be adjusted.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, SBMWD completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods from 2025-2045. A Drought Risk Assessment (DRA) was also performed to analyze supply reliability under five consecutive years of drought from 2021-2025. As described in [Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. SBMWD is able to pump additional groundwater to meet increased demands in dry years and participates in efforts to replenish the basins with imported and local water through regional recharge programs. Additionally, SBMWD implements several ongoing water conservation measures. Regional recharge programs and conservation help to optimize and enhance the use of regional water resources. **Based on the 2020 IRUWMP analysis, SBMWD's water supply is reliable and not expected to see impactful change under drought conditions.**

Even though localized drought conditions should not affect supply, other shortages may occur due to a number of reasons, such as water supply quality changes, regional power outage, State mandates for water use efficiency standards, and catastrophic events (e.g., earthquake). Therefore, SBMWD will use this WSCP as appropriate to address shortages and other supply emergencies.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, SBMWD must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage stage and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to SBMWD at the time of analysis and can be updated or revised at any time if circumstances change.

SBMWD will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP may include the following staff:

- **General Manager**
- **Director of Water Utility**
- **Operations Manager**
- **Water Utility Operations Superintendent**
- **Engineering**
- **Water Conservation Coordinator**
- **Finance Division**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#). The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in [Figure 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	Water Conservation Coordinator, Finance Division
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	The BTAC evaluates change in groundwater storage each year and discusses allocation of available supplies. The SBBA is sustainably managed to provide long term supply reliability and is not anticipated to be impacted in dry years. In the unlikely event that local supplies are reduced, SBMWD will coordinate with the BTAC to identify available supplies for the coming year.	General Manager, Director of Water Utility
JAN - FEB	Consider potential constraints that may impact supply delivery	<p>Identify any known regional or SBMWD infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity.</p> <p>Identify any facilities out of service due to water quality problems, equipment failure, etc. that may impact normal water deliveries.</p> <p>Identify any potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that may limit use of available supplies for potable needs.</p>	Director of Water Utility, Water Utility Operations Superintendent
FEB	Convene WSCP Team to conduct Annual Assessment	<p>Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response stage and actions are recommended to reduce/eliminate the shortage.</p> <p>Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage stage and response actions are needed to comply with the State mandate.</p>	WSCP Team

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JUNE	Board of Directors	If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the SBMWD Water Board, including the recommended shortage stage and response actions. The Water Board may order the implementation of a shortage stage and will adopt a resolution declaring the applicable water shortage stage.	General Manager Water Board
ON-GOING	Implement WSCP actions, if needed	Relevant members of SBMWD staff will implement shortage response actions associated with the declared water shortage stage	WSCP Team, Customer Relations, Information Technology
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

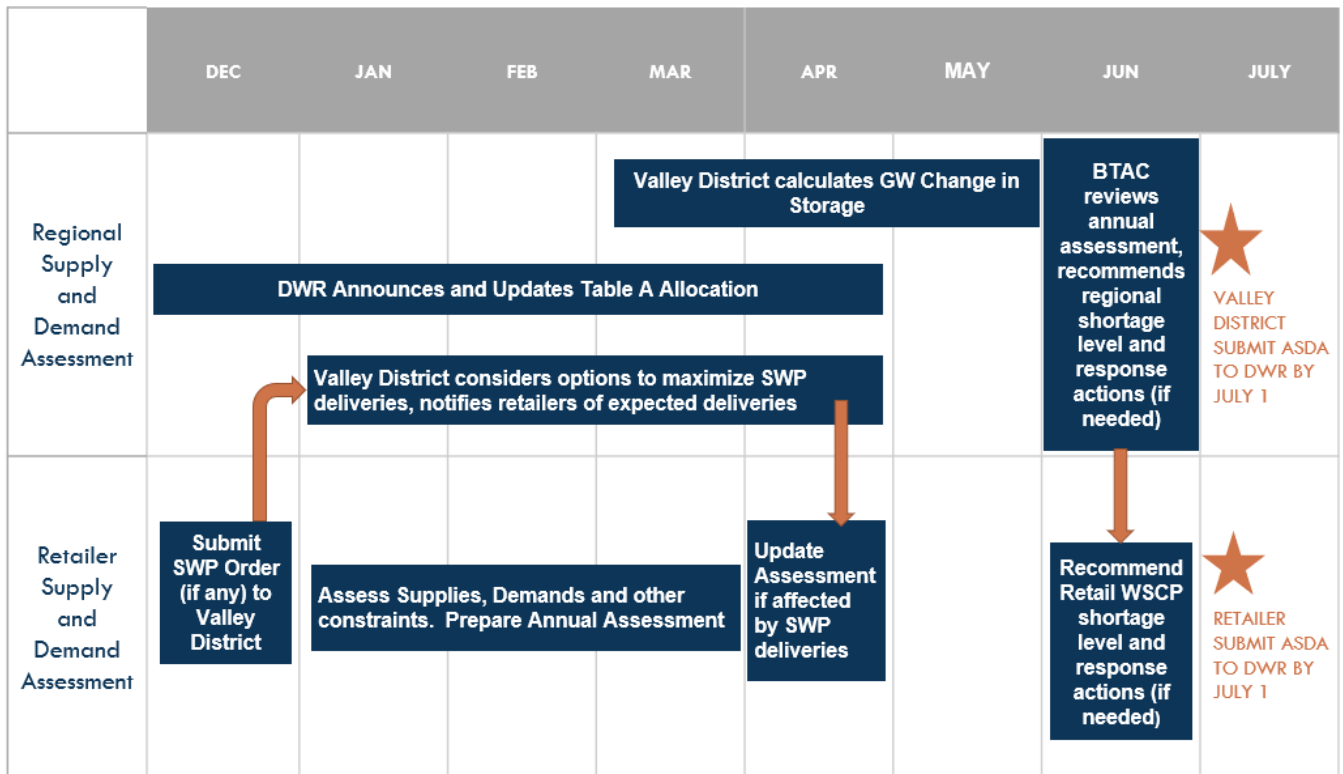


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Stages

With the exception of a catastrophic failure of infrastructure, SBMWD does not foresee imposing a water shortage stage except under the State's direction, as occurred in 2014. If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage stages and response actions that SBMWD may implement.

SBMWD uses four (4) shortage stages to identify and respond to water shortage emergencies. At a minimum, SBMWD encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I: (Normal Conditions-Voluntary Restrictions):

Incurs no financial penalties but requires commitment to a water conservation program.

Stage II: (Mandatory Restrictions)

Will impose a five percent reduction in water usage and assess financial penalties on usage in excess of those amounts.

Stage IIA: (Extreme Mandatory Restrictions)

Will impose a fifteen percent reduction in water usage and assess financial penalties on usage in excess of those amounts.

Stage III: (Water Shortage Emergency)

Will impose up to a fifty percent reduction in water usage and assess financial penalties on usage in excess of those amounts.

The CWC outlines six standard water shortage stages that correspond to a gap in supply compared to normal year availability. The six standard water shortage stages correspond to progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The CWC allows suppliers with an existing WSCP that uses different water shortage stages to comply with the six standard stages by developing and including a cross-reference relating its existing shortage categories to the six standard water shortage stages. SBMWD is maintaining the current four shortage stages for this WSCP. A crosswalk defines how SBMWD's current water shortage stages will align with the DWR's standardized 6 stages of shortage. A visual representation of this alignment is shown in [Figure 2](#).

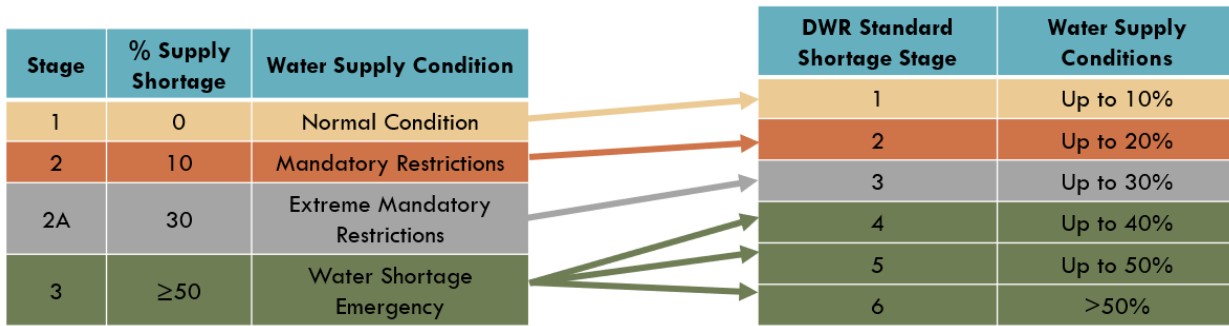


Figure 2. Crosswalk to DWR Six Standard Stages

Table 2: DWR 8-1 Water Shortage Contingency Plan Stages

SHORTAGE STAGE	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Conditions (SBMWD Stage 1)
2	Up to 20%	Mandatory Restrictions (SBMWD Stage 2)
3	Up to 30%	Extreme Mandatory Restrictions (SBMWD Stage 2A)
4	Up to 40%	Water shortage Emergency (SBMWD Stage 3)
5	Up to 50%	Water shortage Emergency (SBMWD Stage 3)
6	>50%	Water shortage Emergency (SBMWD Stage 3)

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that must be implemented or considered for each stage to minimize social and economic impacts to the community.

In accordance with CWC 10632(b) SBMWD analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions SBMWD can take in the event of a water shortage condition. SBMWD has water exchange and transfer agreements with several of the surrounding agencies on an as-needed basis. During water shortage emergencies, SBMWD may be able to obtain supplemental water supply through these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE STAGE	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
3	Exchanges	0-100%	SBMWD has water exchange and transfer agreements with several of the surrounding agencies on an as-needed basis.

4.2 Demand Reduction

In addition to prohibitions on end uses, SBMWD offers various rebates to encourage conservation (i.e. turf removal, efficient irrigation, ultra-low flush toilet replacements, etc.). SBMWD has a water rate structure that promotes water efficiency. The reduction goal is to balance supply and demand. [Table 4](#) summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
1	Expand Public Information Campaign	0-20%	Provide reminder notices regarding noted water waste and offer community outreach programs	No
2	Expand Public Information Campaign	0-20%	Increase advertisement of conservation measures; Maintain a message center for reporting water waste; Determine course of action to remediate reported water waste	No
2	Other	0-1%	Commercial and industrial facility education on water use.	No
2	Implement or Modify Drought Rate Structure or Surcharge	0-5%	10 percent rate increase on customers that don't fulfill 5 percent reduction	Yes
2	CII - Other CII restriction or prohibition	0-1%	Large water use commercial and industrial facilities shall, upon request of the General Manager, provide the SBMWD with a plan to conserve water at their facilities. The SBMWD will provide these facilities with information regarding the average monthly water use by	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			the facility for the last two-year period. The facility will be expected to provide the SBMWD with a plan to conserve or reduce the amount of water used by that percentage deemed by the SBMWD to be necessary under the circumstances.	
2	Landscape - Limit landscape irrigation to specific days	0-5%	Irrigation shall be limited to four days per week on Mondays, Wednesdays, Fridays, and Sundays only	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	Irrigation shall be only allowed between the off-peak hours of 6:00 pm through 8:00 am	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	No watering of outdoor landscapes that causes excessive runoff	Yes
2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	No washing down driveways, sidewalks, or other hardscapes	Yes
2	Other - Require automatic shut of hoses	0-1%	The washing of cars, trucks or other vehicles is not permitted except with a hose equipped with an automatic shut-off device, or a commercial facility so designated for vehicle washing purposes.	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	All leaks shall be corrected within seventy-two (72) hours of Department notification	Yes
2	Other water feature or swimming pool restriction	0-1%	No use of fountains that use potable water, unless the water is recirculated	Yes
2A	Implement or Modify Drought Rate Structure or Surcharge	0-15%	20 percent rate increase on customers that don't fulfill 15 percent reduction	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
2A	Expand Public Information Campaign	0-20%	Increase advertisement of conservation measures; Maintain a message center for reporting water waste; Determine course of action to remediate reported water waste	Yes
2A	Landscape - Limit landscape irrigation to specific days	0-5%	Irrigation shall be limited to three days per week; Mondays, Wednesdays, and Fridays only	Yes
2A	Landscape - Other landscape restriction or prohibition	0-5%	Maximum irrigation time of 15 minutes per station per designated irrigation day	Yes
2A	Landscape - Other landscape restriction or prohibition	0-5%	Irrigation of ornamental turf on public street medians is prohibited	Yes
2A	Landscape - Other landscape restriction or prohibition	0-5%	Irrigation is prohibited for a full 48 hours after a significant precipitation event (rainfall in excess of 1/8") as measured by SBMWD's rain gauge	Yes
2A	Other - Prohibit use of potable water for construction and dust control	0-1%	Use of potable water outside of new residential home and commercial/industrial construction that is not delivered by drip or micro-spray systems is prohibited	Yes
2A	CII - Restaurants may only serve water upon request	0-1%	The serving of drinking water other than upon request is prohibited, in eating or drinking establishments including but not limited to restaurants, hotels, cafes, cafeterias, bars, or any other public place where food or drink are served	Yes
2A	CII - Lodging establishment must offer opt out of linen service	0-1%	All hotels/motels shall provide their guests with the option of choosing not to have towels and linens laundered daily. The hotel/motel must prominently display notice of this option in each bathroom	Yes

SHORTAGE STAGE	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
			using clear and easy language.	
3	Implement or Modify Drought Rate Structure or Surcharge	0-50%	100 percent rate increase on customers that don't fulfill 50 percent reduction	Yes
3	Expand Public Information Campaign	0-20%	Increase advertisement of conservation measures; Maintain a message center for reporting water waste; Determine course of action to remediate reported water waste	No
3	Landscape - Prohibit certain types of landscape irrigation	0-5%	Commercial nurseries shall discontinue all watering and irrigation. Watering of livestock is permitted as necessary.	Yes
3	Other - Prohibit use of potable water for construction and dust control	0-1%	No new construction meter permits shall be issued by SBMWD. All existing construction meters shall be removed and/or locked out of service.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-1%	Washing of vehicles, except when done by commercial car wash establishments using only recycled or reclaimed water may be prohibited.	Yes
3	Landscape - Limit landscape irrigation to specific times	0-5%	Irrigation shall be allowed only between the off-peak hours of 8:00 pm through 6:00 am; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency	Yes
3	Landscape - Limit landscape irrigation to specific days	5-20%	Irrigation shall be limited to two days per week, on Mondays and Thursdays; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency	Yes

4.3 Operational Changes and Additional Mandatory Restrictions

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. SBMWD will consider their operational procedures when it completes its Annual Assessment. Any additional mandatory restrictions implemented in response to the declaration of a shortage response stage, beyond the actions listed in [Table 3](#) and [Table 4](#), are listed in SBMWD's Rule and Regulation No. 21 provided in [Attachment 1](#).

4.4 Emergency Response Plan

In 2020, SBMWD completed a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America's Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of SBMWD's infrastructure. The RRA will assess SBMWD's water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats, and quantifies the consequences of disruption. The RRA also identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), charts a course for water system resilience. The RRA also provided various recommendations to increase reliability of SBMWD's system. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential and for use by SBMWD's staff only. However, SBMWD can confirm that these plans meet the requirements set forth by AWIA and evaluate seismic risks and mitigation actions to SBMWD's infrastructure.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, SBMWD is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. SBMWD may also implement its four-stage plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Stage 4), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In addition to the AWIA RRA and ERP, SBMWD has a 2019 Local Hazard Mitigation Plan (LHMP) that includes an assessment of seismic risk and mitigation for water facilities. The LHMP is included as [Attachment 2](#).

The LHMP ranked SBMWD's facilities by their importance to the SBMWD's production and delivery of drinking water, and then using this ranking the team developed an estimate of potential economic impacts that could be caused by the high priority hazards. The LHMP also identified a set of hazard mitigation actions that are intended to reduce the impact of hazard, including:

- Design new facilities and upgrade existing facilities to withstand an 8.0 earthquake.
- Adopt cost-effective codes and standards to protect life, properties, and critical infrastructure.

4.6 Shortage Response Action Effectiveness

SBMWD has estimated the effectiveness of shortage response actions in [Table 3](#) and [Table 4](#) when data pertaining to such actions is available. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

SBMWD prioritizes effective communication, especially in times of a water shortage emergency. SBMWD routinely communicates to customers about details on when a stage is announced. Communication actions may include bill inserts, handouts, informative flyers, and direct mail pieces, news releases, community presentations, email notifications, social media outreach, and website content. SBMWD continues to provide reminders about shortage stages and encourages conservation at all times.

6.0 Compliance and Enforcement

Violations – a violation of any water use restrictions of Rule and Regulation No. 21 currently in effect may result in the imposition of fines, water use restrictions, and/or termination of water service as set forth below:

1. **Step 1:** 1st Violation warning letter to customer/owner describing the water waste issue and notice of potential fines for continuing waste, providing a SBMWD customer service contact for conservation information and assistance. Provides customer/owner seven (7) calendar days to remedy the water waste situation and comply with conservation restrictions.
2. **Step 2:** 2nd Violation, customer/owner site visit or phone call to discuss nature of the water waste and potential solutions. A second Notice of Violation letter allowing seven calendar days to remedy the water waste situation and comply with the conservation restrictions.
3. **Step 3:** 3rd Violation: Third Notice of Violation letter informing customer/owner of financial penalty and allowing seven calendar days to remedy water waste situation and comply with conservation measures. One hundred dollars (\$100.00) penalty assessed.
4. **Step 4:** Subsequent Violation(s): Additional penalties increasing incrementally by one hundred dollars (\$100.00) per incident. Customer/owner shall receive a separate notice per each subsequent violation and will have seven (7) calendar days after each notification to remedy the water waste situation and comply with conservation restrictions.
5. **Step 5:** The Department may restrict the amount of water supplied to any customer/owner failing to comply with conservation standards. The provisions of this section shall be applied at the discretion of the Department.

7.0 Legal Authorities

A Drought Contingency Plan and Water Conservation Policy were originally adopted by SBMWD in 1991. More recently, on June 1, 2015, the City of San Bernardino Board of Water Commissioners passed Resolution 763, which amended the general water service rates, water conservation measures, and water waste penalties as set forth in Rule and Regulation No. 21.

7.1 Water Shortage Emergency Declaration

In accordance with CWC Section Division 1, Section 350 – SBMWD shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, SBMWD shall coordinate with any of the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

To ensure SBMWD's customers comply with Rule and Regulation No. 21 and CWC Chapter 3.3 (Excessive Residential Water Use During Drought), additional costs may be incurred to monitor and enforce response actions. The incurred cost may vary depending on the shortage stage and duration of the water shortage emergency.

The projected impact on water sales for a one-year period under a Stage 2 water shortage condition would result in an overall decrease in water sales revenue of approximately 10 percent. A decrease in water sales revenue of this magnitude would not adversely impact the financial operations of SBMWD.

Under Stage 2A, SBMWD is seeking to achieve a 15-percent reduction in water usage and assess financial penalties on usage in excess of those amounts. If customers do achieve the target reductions, the reduction in revenue to SBMWD would be between 5 and 15 percent.

A one-year period under a Stage 3 water shortage condition would reduce sales revenue by approximately 25 percent given the current rate structure. Adequate reserves are available to cover both shortage scenarios described above. However, a 25 percent reduction in water sales revenue would necessitate a water rate increase if the Stage 3 condition continued beyond the initial one-year period.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. SBMWD will use results obtained from their monitoring and reporting program to evaluate any needs for revisions. Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to the SBMWD Water Board for discretionary approval. Once discretionary approval has been granted, SBMWD will hold a public hearing, obtain any comments and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

SBMWD adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in June 2021 and a public hearing was held on **June 22, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The SBMWD Water Board adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 22, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of **July 1, 2021**.

This WSCP will be available to the public on SBMWD's web site.

If SBMWD identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

References

- California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.
- Texas Living Waters Project. (2018). *Water Conservation by the Yard: A Statewide Analysis of Outdoor Water Savings Potential*. Austin: Texas Living Waters Project, Sierra Club, National Wildlife Federation. Retrieved from Texas Living Waters Project.
- United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: SBMWD's Rule and Regulation No. 21

Exhibit "A"
CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT
300 North "D" Street
San Bernardino, CA 92401

RULE AND REGULATION NO. 21
GENERAL WATER SERVICE/WATER RATES

The following rates shall be charged for all water furnished for domestic, commercial, industrial, and municipal water use within the City of San Bernardino, and for any other purpose for which no rate is specified.

- A. MINIMUM MONTHLY CHARGE All users will be assessed a minimum monthly charge to recover fixed costs, such as meter replacement, customer service, mailing costs, bill payment and debt service. The rates will be as follows:

Meter Size	February 1, 2010	January 1, 2011	January 1, 2012
½ inch or 5/8 inch	\$ 10.55	\$ 12.20	\$ 12.90
¾ inch	\$ 13.00	\$ 15.15	\$ 16.15
1 inch	\$ 17.90	\$ 21.00	\$ 22.60
1½ inch	\$ 30.15	\$ 35.75	\$ 38.80
2 inch	\$ 44.85	\$ 53.45	\$ 58.20
3 inch	\$ 79.15	\$ 94.75	\$ 103.50
4 inch	\$ 128.15	\$ 153.70	\$ 168.20
6 inch	\$ 250.70	\$ 301.15	\$ 330.00
8 inch	\$ 397.75	\$ 478.10	\$ 524.15
10 inch	\$ 569.30	\$ 684.55	\$ 750.65

- B. COMMODITY CHARGE: This charge recovers water production and treatment costs, as well as associated variable costs of the Department. This rate is charged per hundred cubic feet (hcf) of water sold.

Commodity	February 1, 2010	January 1, 2011	January 1, 2012
Charge per hcf	\$1.05	\$1.10	\$1.15

- C. REPLENISHMENT CHARGE: This charge recovers the cost of water purchased to replenish the local basin and may be adjusted up or down, depending upon the amount of replenishment required. This rate is charged per hundred cubic feet (hcf) of water sold.

Replenishment	February 1, 2010	January 1, 2011	January 1, 2012
Charge per hcf	\$0.09	\$0.09	\$ 0.09

- D. ELEVATION CHARGE: This charge recovers electrical costs to transport water through the system and is specific to each zone. The electric cost incurred at plant facilities within each elevation level is distributed across water usage within that zone. This rate is charged per hundred cubic feet (hcf) of water sold.

Elevation zone	February 1, 2010	January 1, 2011	January 1, 2012
Zone 1	\$0.09	\$0.10	\$0.11
Zone 2	\$0.17	\$0.18	\$0.19
Zone 3	\$0.15	\$0.16	\$0.17
Zone 4	\$0.12	\$0.13	\$0.14
Zone 5	\$0.21	\$0.22	\$0.23
Zone 6	\$0.21	\$0.22	\$0.23

Note: the Energy Surcharge previously collected is now included in this Elevation Charge.

- E. CONSERVATION CHARGE AND TIERS: To encourage conservation, customer accounts placing a greater demand on the water system will be assessed a higher cost. Initially, customers using in excess of their class average by service size listed below will pay a higher rate for water usage that falls in the second tier. To encourage greater conservation over a longer period of time, each tier and charge will adjust annually. This rate is charged per hundred cubic feet (hcf) only on that usage above the level defined in the tier table below. Revenues recovered from these charge will fund conservation programs sponsored by the Department.

Conservation Charge per hcf	January 1, 2012
	\$0.35

All usage in hundred cubic feet (hcf) in excess of that listed below, by class, is billed the conservation charge. *As an example:* As of July 1, 2012, residential use equal to or below 32 hcf in a monthly billing period will not be assessed an additional conservation charge. However, each hcf billed above 32 will be assessed an additional 35¢ per hcf. The table below indicates the hcf cutoff for each customer class by meter size.

Conservation Tiers	January 1, 2012
Residential	32
MDU (2)	42
MDU (2+) per unit	17
Non-residential 5/8"	24
Non-residential 3/4"	36
Non-residential 1"	65
Non-residential 1 1/2"	150
Non-residential 2"	250
Non-residential 3"	740
Commercial 5/8"	42
Commercial 3/4"	55
Commercial 1"	130
Commercial 1 1/2"	275
Commercial 2"	445
Commercial 3"	875
Commercial 4"	2,400
Commercial 6"	9,000

F. ASSESSMENT DISTRICT CHARGE: Water furnished to the City for landscape assessment districts or funded from other than the City's General fund will be charged the following rate per hundred cubic feet (hcf) of water sold.

Assessment District Charge per hcf	February 1, 2010	January 1, 2011	January 1, 2012
	\$0.37	\$0.40	\$0.45

G. UNMETERED CHARGE: A "jumper" may be substituted for a water meter during single or multi-family housing construction at a charge of \$50 per month for a maximum of 120 calendar days or until the lot landscaping begins. Thereafter, a water meter shall be installed subject to all fees and charges as listed above prior to the issuance of a certificate of occupancy. Water used for tract grading and jetting of trenches is not covered in the above charge and is subject to the fees and charges listed in Rule and Regulation No. 16.

H. SURCHARGE – OUTSIDE CITY LIMITS: Any service installed outside the incorporated territory of the City after February 1, 1991 may be billed the meter charge and all required consumption related charges as set forth in this rule and regulation, multiplied by 1.5.

I. WATER SUPPLY SHORTAGE RATES: To comply with State of California mandates, the City of San Bernardino Municipal Water Department shall implement the following procedure in response to drought or water supply shortage declarations or similar service interruptions in the delivery of water to its customers.

During any drought or water supply shortage condition, the Department's General Manager may declare any one of three shortage level responses with ratification by the Board of Water Commissioners (Board) within three calendar days. A declaration of a water supply shortage may result from:

- Interruption of service through major plant failure;
- Interruption of replenishment water from various resources;
- Rainfall level at twenty-five percent (25%) or more below normal levels for at least six months;
- A natural disaster or other emergency event;
- Emergency regulations by the State Water Resources Control Board (SWRCB) and/or Executive Order(s) from the Governor's office.

Stage I (Voluntary Restrictions) incurs no financial penalties but requires an ongoing commitment to a water conservation program. During Stage I, the Department shall:

- Offer educational resources and landscaping classes;
- Offer rebate programs for water smart appliances and other water saving devices;
- Encourage voluntary conservation through continued media announcements;
- Request the City Manager to direct city parks, facilities and golf courses to restrict landscape watering to off-peak hours to reduce demand on the water system and eliminate the 60% evaporation rate during daytime watering.

- Provide reminder notices regarding noted water waste; and
- Offer community outreach programs.

Due to the continuous conservation efforts required to preserve San Bernardino's water supply in the region's arid climate, Stage I will be maintained at all times.

Stage II (Mandatory Restrictions) will impose a five percent (5%) reduction in water usage and assess financial penalties on usage in excess of those amounts.

A base allowance for each customer will be established based upon their 2013 calendar year's water usage. A ten percent (10%) surcharge will be applied to each billing unit that exceeds the (5%) required reduction in base allowance. Where the customer does not have consumption history from 2013, then the Department shall use the customer's rate/class consumption average, by meter size, as the benchmark.

As an example: A customer used 20 billing units in August 2013. During a Stage II five percent (5%) usage reduction, the customer is permitted 19 billing units during the August 2014 billing period.

$$20 \text{ hcf} \times 5\% = 1 \text{ hcf}$$
$$20 \text{ hcf} - 1 \text{ hcf} = 19 \text{ hcf August 2014 Baseline}$$

If that customer utilizes 19 or less billing units, no financial penalty is assessed. However, should that customer utilize 25 billing units, a ten percent (10%) surcharge will be assessed for each billing unit in excess of 19:

$$25 \text{ hcf} - 19 \text{ hcf} = 6 \text{ hcf} \times 10\% \times \$1.15 \text{ (Commodity Rate)} = \$.69 \text{ Surcharge}$$

Additionally, during Stage II, the Department mandates the following:

- Irrigation shall only be allowed between the off-peak hours of 6:00 pm through 8:00 am;
- Irrigation shall be limited to four days per week on Mondays, Wednesdays, Fridays and Sundays only;
- No watering of outdoor landscapes that cause excessive runoff;
- No washing down driveways, sidewalks, or other hardscapes;
- The washing of cars, trucks, or other vehicles is not permitted except with an automatic shut-off device, or at a commercial car washing facility designated for vehicle washing;
- No use of fountains that use potable water, unless the water is recirculated;
- Increase advertisement of conservation measures;
- Maintain a message center for reporting water waste;
- Determine course of action to remediate reported water waste;
- Request the City Manager to direct Parks and Recreation, City Facilities and all golf courses to limit outdoor watering for irrigation to four days per week, and also only between the hours of 6:00 pm through 8:00 am.
- All leaks shall be corrected within seventy two (72) hours of Department notification.

The Board of Water Commissioners reserves the right to declare additional Stage II mandatory restrictions and prohibitions in the future if required by the State of California.

Stage IIA (Extreme Mandatory Restrictions) will impose a twenty-eight percent (28%) reduction in water usage and assess financial penalties on usage in excess of those amounts.

A base allowance for each customer will be established based upon their 2013 calendar year's water usage. A twenty percent (20%) surcharge will be applied to each billing unit that exceeds the (28%) required reduction in base allowance. Where the customer does not have consumption history from 2013, then the Department shall use the customer's rate/class consumption average, by meter size, as the benchmark.

As an example: A customer used 20 billing units in August 2013. During a Stage IIA twenty-eight percent (28%) usage reduction, the customer is permitted 14.4 billing units during the August 2015 billing period.

$$\begin{aligned} 20 \text{ hcf} \times 28\% &= 5.6 \text{ hcf} \\ 20 \text{ hcf} - 5.6 \text{ hcf} &= 14.4 \text{ hcf} \text{ August 2015 Baseline} \end{aligned}$$

If that customer utilizes 14.4 or less billing units, no financial penalty is assessed. However, should that customer utilize 25 billing units, a twenty percent (20%) surcharge will be assessed for each billing unit in excess of 14.4 hcf. Assuming the commodity rate is \$1.15 per hcf:

$$25 \text{ hcf} - 14.4 \text{ hcf} = 10.6 \text{ hcf} \times 20\% \times \text{commodity rate.}$$

$$\text{Surcharge} = 10.6 \text{ hcf} \times 0.2 \times \$1.15 = \$2.44$$

Additionally, during Stage IIA, the Department mandates the following:

- Irrigation shall only be allowed between the off-peak hours of 6:00 pm through 8:00 am;
- Irrigation shall be limited to three days per week; Mondays, Wednesdays and Fridays only;
- Maximum irrigation time of 15 minutes per station per designated irrigation day;
- Irrigation will be prohibited for a full 48 hours after a significant precipitation event (rainfall in excess of 1/8" as measured at the Department's Mill and D rain gauge) has occurred over the City of San Bernardino. Department will maintain website notification when this restriction will be in place;
- No watering of outdoor landscapes that cause excessive runoff;
- No washing down driveways, sidewalks, or other hardscapes;
- The washing of cars, trucks, or other vehicles is not permitted except with an automatic shut-off device, or at a commercial car washing facility designated for vehicle washing;
- No use of fountains that use potable water, unless the water is recirculated;
- Increase advertisement of conservation measures;
- Maintain a message center for reporting water waste;
- Determine course of action to remediate reported water waste;

- Request the City Manager to direct Parks and Recreation, City Facilities and all golf courses to limit outdoor watering for irrigation to three days per week, and also only between the hours of 8:00 pm through 6:00 am.
- Irrigation of ornamental turf on public street medians is prohibited.
- Use of potable water outside of new residential home and commercial/industrial construction that is not delivered by drip or micro-spray systems is prohibited.
- The serving of drinking water other than upon request is prohibited, in eating or drinking establishments including but not limited to restaurants, hotels, cafes, cafeterias, bars or any other public place where food or drink are served.
- All hotels/motels shall provide their guests with the option of choosing not to have towels and linens laundered daily. The hotel/motel must prominently display notice of this option in each bathroom using clear and easy language.
- All leaks shall be corrected within seventy two (72) hours of Department notification.

The Board of Water Commissioners reserves the right to declare additional mandatory restrictions and prohibitions in the future if required by the State of California.

Stage III (Water Shortage Emergency) will impose a fifty percent (50%) reduction in water usage and assess financial penalties on usage in excess of those amounts. A Stage III water supply shortage condition shall be declared if a catastrophic interruption of water supply or distribution facility occurs as the result of drought, earthquake, wildfire, extended power outage or any other disaster in which the Department may be prevented from meeting the water demands of its customers. Prior to the Board of Water Commissioners taking action on the Stage III declaration, notice will be given to the Mayor and the City Manager of the mandatory restrictions that will be placed into effect.

A base allowance for each customer will be established based upon their 2013 calendar year water usage. A one hundred percent (100%) surcharge will be applied to each billing unit that exceeds the fifty percent (50%) required reduction in base allowance. Where the customer does not have consumption history from 2013, then the Department shall use the customer's rate/class consumption average, by meter size, as the benchmark.

As an example: A customer used 20 billing units in August 2013. During a Stage III fifty percent (50%) usage reduction, the customer is permitted 10 billing units during the August 2015 billing period.

$$\begin{aligned} 20 \text{ hcf} \times 50\% &= 10 \text{ hcf} \\ 20 \text{ hcf} - 10 \text{ hcf} &= 10 \text{ hcf August 2015 Baseline} \end{aligned}$$

If that customer utilizes 10 or less billing units, no financial penalty will be assessed. However, should that customer utilize 25 billing units, a one hundred percent (100%) surcharge will be assessed for each billing unit in excess of 10: Assuming the commodity rate is \$1.15 per hcf:

$$25 \text{ hcf} - 10 \text{ hcf} = 15 \text{ hcf} \times 100\% \times \$1.15 \text{ (commodity rate.)} = \$17.25 \text{ Surcharge}$$

Additionally, during Stage III, the Department shall:

- Irrigation shall be allowed only between the off-peak hours of 8:00 pm through 6:00 am; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency.
- Irrigation shall be limited to two days per week, on Mondays and Thursdays; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency;
- No watering of outdoor landscapes that cause excessive runoff;
- No washing down driveways, sidewalks, or other hardscapes;
- No washing of vehicles except at commercial vehicle washing facilities;
- No use of fountains that use potable water, unless the water is recirculated;
- Increase advertisement of conservation measures;
- Maintain a message center for reporting water waste;
- Determine course of action to remediate reported water waste;
- Request the City Manager to direct parks, facilities and golf courses to limit outdoor watering for irrigation to two days per week, and also only between the off-peak hours of 8:00 pm through 6:00 am; however, the Department reserves the right to prohibit all outdoor irrigation at any time depending on the severity of the emergency;
- The serving of drinking water other than upon request is prohibited, in eating or drinking establishments including but not limited to restaurants, hotels, cafes, cafeterias, bars or any other public place where food or drink are served.
- All hotels/motels shall provide their guests with the option of choosing not to have towels and linens laundered daily. The hotel/motel must prominently display notice of this option in each bathroom using clear and easy language.
- All leaks shall be corrected within seventy-two (72) hours of Department notice;
- Deny all new construction meter requests;
- Remove or lock out all existing construction meters in service.

Notices of Violation:

- Step 1: 1st Violation warning letter to the customer/owner describing the water waste issue and notice of potential fines for continuing water waste, providing a Department customer service contact for conservation information and assistance. Provides customer/owner seven calendar days to remedy the water waste situation and comply with conservation restrictions.
- Step 2: 2nd Violation, customer/owner site visit or phone call to discuss nature of the water waste and potential solutions. A second Notice of Violation letter allowing seven calendar days to remedy the water waste situation and comply with conservation restrictions.
- Step 3: 3rd Violation: Third Notice of Violation letter informing customer/owner of financial penalty and allowing seven calendar days to remedy water waste situation and comply with conservation restrictions. One hundred dollars (\$100.00) penalty assessed.

- Step 4: Subsequent Violation(s): Additional penalties increasing incrementally by one hundred dollars (\$100.00) per occurrence, up to a limit of five hundred dollars (\$500.00) per incident. Customer/owner shall receive a separate notice per each subsequent violation and will have seven (7) calendar days after each notification to remedy the water waste situation and comply with conservation restrictions;
- Step 5: The Department may restrict the amount of water supplied to any customer/owner failing to comply with conservation standards. The provisions of this section shall be applied in addition to any other penalties provided in this rule and shall be applied at the discretion of the Department.

Exceptions: The restrictions of water consumption outlined herein are not applicable to water usage necessary for public health and safety or for essential governmental services, such as police, fire, and emergency services. The Department reserves the right to waive any water restriction penalty when, in its discretion, such consumption is required in order to maintain an adequate level of public health and safety.

Payment of Surcharges and Penalties:

All surcharges and penalties imposed under this rule and regulation shall be added to customer's water bills or as a lien on the owner's property and become payable at the same time and in the same manner as such bills or by such other method of collection and payment as established by the Department.

Right to Hearing:

Any customer/owner shall have a right to a hearing with the General Manager of the Department, or his/her designee, on a notice of violation, the assessment of a surcharge or penalty, or the denial and/or lock out of a construction meter, upon written request to the Department. Customer/owner's written request for a hearing must be received by the Department within ten (10) calendar days from the date of notice of violation, or customer/owner's right to a hearing shall be deemed waived.

Customer/owner shall be deemed notified of a violation, surcharge, penalty, or denial and/or lockout of a construction meter upon (1) the personal delivery of the notice to customer or (2) the date of lock out and/or denial of construction meter. If personal delivery is not given, the date on which the notice is placed in the regular mail shall be deemed the date of notification.

Customer/owner's timely written request for a hearing shall automatically stay the imposition of a penalty until the General Manager or his/her designee renders a decision; except that denial of a construction meter request or lock out of an existing construction meter shall remain in effect until the General Manager or his/her designee renders a decision.

The decision of the General Manager or his/her designee may be appealed to the Board of Water Commissioners, provided that the customer files a written notice of appeal with the Department within five calendar days of notification of the decision.

The decision of the General Manager, his/her designee, or the Board (if an appeal is timely filed) shall be final and conclusive and shall not be subject to appeal to the Mayor and Common Council. Once the decision becomes final as provided in this rule and regulation, the time in which judicial review of the decision must be sought shall be governed by California Code of Civil Procedure Section 1094.6, or other applicable State law.

Other Water Conservation Measures:

The Board may order implementation of other water conservation measures in addition to those set forth in this rule and regulation. Such additional water shortage measures shall be implemented in the manner provided in this rule.

Conclusion of a Water Supply Shortage Condition:

The General Manager shall notify the Board when the water supply shortage condition stage level should be reduced. The Board may ratify the General Manager's reduction of stage level. All bills issued after the Board's ratification date shall not include water supply shortage surcharges.

Use of Surcharge Funds:

Any surcharges and fines will be segregated into a restricted cash account managed by the Department to supplement the conservation efforts of the Department.

Approved by BOWC: May 19, 2015
Effective: June 1, 2015
Supersedes: August 19, 2014

Attachment 3: Adoption Resolution

RESOLUTION NO. 2021-007

**RESOLUTION OF THE WATER BOARD OF THE CITY OF
SAN BERNARDINO, CALIFORNIA, ADOPTING THE
WATER SHORTAGE CONTINGENCY PLAN**

WHEREAS, in accordance with Section 603 of the City Charter, the Water Board is responsible for oversight and management of the City's water supply, recycled water, wastewater collection and treatment functions; and

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000-acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan (WSCP); and

WHEREAS, San Bernardino Municipal Water Department meets the definition of an urban water supplier for purposes of the UWMP Act; and

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such WSCPs; and

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and

WHEREAS, the San Bernardino Municipal Water Department has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and

WHEREAS, the WSCP references and incorporates the provisions of the San Bernardino Municipal Water Department's Rule and Regulation No. 21, General Water Service/Water Rates, Section I Water Shortage Supply Rates adopted on September 20, 2016; and

WHEREAS, in accordance with the UWMP Act, the San Bernardino Municipal Water Department has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding the San Bernardino Municipal Water Department's WSCP was published within the jurisdiction of the San Bernardino Municipal Water Department on June 3, 2021 and June 10, 2021; and

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 22, 2021 at 9:30 AM, or soon thereafter, via web-conference and livestream accessible via YouTube at <https://bit.ly/YouTubeSBWater>, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, the San Bernardino Municipal Water Department, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the San Bernardino Municipal Water Department's service area with regard to the preparation of the WSCP, encouraged community input regarding San Bernardino Municipal Water Department's WSCP; and

WHEREAS, the Water Board has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

WHEREAS, the Water Board desires to adopt the WSCP in order to comply with the UWMP Act.

BE IT RESOLVED BY THE WATER BOARD OF THE CITY OF SAN BERNARDINO AS FOLLOWS:

SECTION 1. The above recitals are true and correct and are incorporated herein by this reference.

SECTION 2. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the Water Board as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Water Board;

SECTION 3. CEQA. The Water Board finds this Resolution is not subject to the California Environmental Quality Act (CEQA) in that the activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty, as in this case, that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

SECTION 4. The General Manager is hereby authorized and directed to include a copy of this Resolution in San Bernardino Municipal Water Department's WSCP;

SECTION 5. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;

SECTION 6. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and

any city or county within which the San Bernardino Municipal Water Department provides water supplies no later than thirty (30) days after this adoption date;

SECTION 7. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at the San Bernardino Municipal Water Department's offices during normal business hours and on the San Bernardino Municipal Water Department's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;

SECTION 8. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which the San Bernardino Municipal Water Department provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;

SECTION 9. The General Manager is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the Water Board regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

SECTION 10. Severability. If any provision of this Resolution or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications, and to this end the provisions of this Resolution are declared to be severable.

SECTION 11. Effective Date. This Resolution shall become effective immediately.

APPROVED and **ADOPTED** by the Water Board and signed by the President of the Water Board and attested by the Deputy City Clerk & Ex Officio Secretary of the Water Board this 22nd day of June, 2021.



Toni Callicott, President
City of San Bernardino Water Board

Attest:

Robin L. Ohama
Robin L. Ohama (Jun 22, 2021 11:39 PDT)

Robin Ohama
Deputy City Clerk & Ex Officio Secretary of the Water Board

CERTIFICATION

STATE OF CALIFORNIA)
COUNTY OF SAN BERNARDINO) ss
CITY OF SAN BERNARDINO)

I, Robin Ohama, Deputy City Clerk & Ex Officio Secretary of the Water Board, hereby certify that the attached is a true copy of Resolution No. adopted at a regular meeting held on the 22nd day of June, 2021 by the following vote:

<u>Council Members:</u>	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
CALLICOTT	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
HENDRIX	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
MLYNARSKI	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
BRICKLEY	<u> </u>	<u> </u>	<u> </u>	<u> X </u>
JOHNSON	<u> X </u>	<u> </u>	<u> </u>	<u> </u>

WITNESS my hand and official seal of the City of San Bernardino this 22nd day of June, 2021.

Robin L Ohama
Robin L Ohama (Jun 22, 2021 11:39 PDT)

Robin Ohama
Deputy City Clerk & Ex Officio Secretary of
the Water Board



2020 IRUWMP Part 4
South Mesa Water
Company Appendix I



I-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 9 Part 1 Chapter 3
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	Part 2 Chapter 9 Executive Summary
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	Part 2 Chapter 9
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	Part 1 Chapter 1
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	Part 4 Appendix I-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 9 Section 1

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 9 Section 1.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 1 Chapter 2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 9 Section 1.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 2 Chapter 9 Section 1.2
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 9 Section 2
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 9 Section 2.1.2
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	Part 2 Chapter 9 Section 2.2.1
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	Part 2 Chapter 9 Section 2.2
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	Part 2 Chapter 9 Section 2.1.2
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	Part 2 Chapter 9 Section 2.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 9 Section 2.4 Part 1 Chapter 5
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	Part 2 Chapter 9 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 9 Section 3.2
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
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	N/A
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	Part 4 Appendix I-7
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	Part 4 Appendix I-7
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	Part 2 Chapter 9 Section 4 Part 2 Chapter 9 Section 5.3 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 9 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 9 Section 4 Part 1 Chapter 3
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 9 Section 4.7 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 9 Section 4.8 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 9 Section 4.2
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	Part 2 Chapter 9 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 9 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 9 Section 4.2
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	Part 2 Chapter 9 Section 4.8
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	Part 2 Chapter 9 Section 4.6
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)	Part 2 Chapter 9 Section 4.5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 9 Section 4.5.1
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)	Part 2 Chapter 9 Section 4.5 Part 1 Chapter 3
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)	Part 2 Chapter 9 Section 4.5 Part 1 Chapter 3 Part 4 Appendix I-6
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 9 Section 4.5
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	Part 2 Chapter 9 Section 4.7 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 9 Section 4.9 Part 4 Appendix I-6
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	Water Supply Reliability Assessment	Part 2 Chapter 9 Section 4 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 9 Section 5.3 Part 1 Chapter 5
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	Part 2 Chapter 9 Section 6
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	Part 2 Chapter 9 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 9 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 9 Section 6 Part 1 Chapter 5
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	Part 2 Chapter 9 Section 5.1 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix I-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix I-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix I-9 Section 10.0
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	Part 4 Appendix I-9 Section 2.0
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	Part 4 Appendix I-9 Section 2.0
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	Part 4 Appendix I-9 Section 3.0
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	Part 4 Appendix I-9 Section 3.0
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	Part 4 Appendix I-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix I-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix I-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix I-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix I-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix I-9 Section 4.4&4.5
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	Part 4 Appendix I-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix I-9 Section 5.0
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	Part 4 Appendix I-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix I-9 Section 7.0
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	Part 4 Appendix I-9 Section 7.1
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	Part 4 Appendix I-9 Section 7.2
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	Part 4 Appendix I-9 Section 8.0
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	Part 4 Appendix I-9 Section 8.0
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	Part 4 Appendix I-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix I-9 Section 9.0
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	Part 4 Appendix I-9 Section 4.0
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	Part 4 Appendix I-9 Section 11.0
Section 8.14	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	Part 4 Appendix I-9 Section 11.0
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
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	Part 2 Chapter 9 Section 8
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	Part 2 Chapter 9 Section 9
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 9 Section 9 Part 4 Appendix I-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9 Part 4 Appendix I-2 Public Outreach
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 9 Section 9
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	Part 2 Chapter 9 Section 9

I-2: Public Outreach

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

Calimesa News Mirror

1007 Calimesa Blvd #D
Calimesa, CA 92320
909-797-9101

Proof of Publication
(2015.5 C.C.P.)

PUBLIC HEARING NOTICE

State of California)
County of Riverside) **ss.**

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer and publisher of Calimesa News Mirror, a newspaper published in the English language in the City of Calimesa, County of Riverside, and adjudicated a newspaper of general circulation as defined by the laws of the state of California by the Superior Court of the County of Riverside, under the date May 21, 1991, Case No. 211250. That the notice, of which the annexed is a copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

June 4, 11, 2021

Executed on: June 11, 2021

At Calimesa , California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Michelle REarnest
Signature

SOUTH MESA WATER COMPANY
Public Hearing Notice
2020 Integrated Regional Urban Water Management Plan and Water Shortage Contingency Plan

Notice is hereby given that on June 18, 2021 at 9am in the South Mesa Water Company (SMWC) boardroom located at 391 W. Avenue L, Calimesa, CA 92320 the South Mesa Water Companys Board of Directors will conduct a public hearing to receive public comments and consider adoption of the Draft 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Draft Water Shortage Contingency Plan (WSCP). Following the public hearing, the South Mesa Water Companys Board of Directors may adopt the Draft 2020 IRUWMP and Draft WSCP with recommended modifications, if any, because of public input.

The Draft 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents South Mesa Water Companys plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The Draft WSCP documents South Mesa Water Companys plans to manage and mitigate an actual water shortage condition, should one occur because of drought or other impacts on water supplies.

A copy of the Draft 2020 IRUWMP and Draft WSCP will be available for public review beginning in late May 2021 and can be downloaded at www.southmesawatercompany.com or viewed at the South Mesa Water Company office at 391 W. Avenue L, Calimesa, CA 92320. Please contact the South Mesa Water Company if you require special accommodations. Please provide written comments on the Draft 2020 IRUWMP documents to Tammy Brown at SMWC@verizon.net prior to June 16, 2021.

If you have any questions regarding South Mesa Water Companys 2020 IRUWMP or WSCP or public hearing meeting, please contact Tammy Brown at 909-795-2401 or SMWC@verizon.net.
Published Calimesa News Mirror

June 4, 11, 2021

I-3: Resolutions

RESOLUTION 1504

**RESOLUTION OF THE BOARD OF DIRECTORS OF SOUTH MESA WATER
COMPANY ADOPTING THE 2020 UPPER SANTA ANA RIVER WATERSHED
INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN**

WHEREAS, South Mesa Water Company and other water managers in the upper Santa Ana River watershed have long recognized the importance of regional collaboration and integration of single purpose efforts and regularly work across jurisdictional boundaries to implement regional multi-benefit projects and programs that address multiple water resource management issues, including local and imported water supplies, recycled water, stormwater management, groundwater management, water use efficiency, habitat and open space management, and many others; and,

WHEREAS, the California lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and,

WHEREAS, in 2005, sixteen (16) agencies in the upper Santa Ana River watershed decided to develop the region's first IRWM Plan (IRWMP) to collaborate on regional water management issues; and,

WHEREAS, the Upper Santa Ana River Watershed IRWMP was completed in 2007 and updated in 2015; and,

WHEREAS, the IRWMP established an update schedule of every five years and is due to be updated; and,

WHEREAS, the California Department of Water Resources (DWR) has established Program Guidelines for the IRWM Program, which were most recently updated in 2016 (2016 IRWM Guidelines); and,

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (UWMP Act), mandates that every urban supplier of water

providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000-acre feet of water annually, prepare an Urban Water Management Plan (UWMP); and,

WHEREAS, South Mesa Water Company anticipates that it will soon meet the definition of an urban water supplier for purposes of the UWMP Act, and seeks to be proactive and to maximize efficient use of resources and information by voluntarily participating in cooperative regional water management planning efforts with the other agencies; and,

WHEREAS, the UWMP Act requires that UWMPs be adopted within one year of becoming an urban water supplier, and that UWMPs be updated and adopted at least once every five years on or before July 1, in years ending in six and one; and,

WHEREAS, the UWMP Act allows for water suppliers to work together to develop a cooperative regional UWMP and in 2010 and 2015, the San Bernardino Valley Regional UWMP (RUWMP) was prepared by ten different water suppliers to collectively meet the requirements of the UWMP Act; and,

WHEREAS, both the IRWMP and RUWMP are both due to be updated; and,

WHEREAS, South Mesa Water Company and nineteen (19) other water suppliers and water management organizations in the upper Santa Ana River watershed decided to combine the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and,

WHEREAS, valuable synergies are realized by combining these two documents into one, including reduced preparation costs, a single integrated dataset, a consolidated reference document, enhanced collaboration, and more robust integrated planning and decision-making; and,

WHEREAS, the 2020 IRUWMP document is organized into four parts: Part 1 – Regional Context, Part 2 – Individual Water Supplier UWMPs, Part 3 – Regional Supporting Information and Part 4 – Individual Water Supplier UWMP Supporting Information; and,

WHEREAS, as a participant in the 2020 IRUWMP, South Mesa Water Company has prepared those portions of the IRUWMP applicable to South Mesa Water Company to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include Part 1; Part 2 Chapter 9; South Mesa Water Company UWMP; Part 3; and, Part 4 Appendix I; South Mesa Water Company Supporting Information; and,

WHEREAS, in accordance with applicable legal requirements, South Mesa Water Company has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to the 2020 IRUWMP; and,

WHEREAS, in accordance with the UWMP Act, South Mesa Water Company has prepared the 2020 IRUWMP with staff from its own South Mesa Water Company, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its 2020 UWMP, and has also utilized the DWR Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, including its related appendices and the 2016 IRWM Guidelines; and,

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding South Mesa Water Company's adoption of IRUWMP Part 1; Part 2, Chapter 9; Part 3; and, Part 4 Appendix I of the 2020 IRUWMP, was published within the jurisdiction of South Mesa Water Company on June 4, 2021 and June 11, 2021; and,

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 18, 2021 at 4:00 PM, or soon thereafter, in the boardroom of the offices of South Mesa Water Company, 391 W. Avenue L, Calimesa, CA 92320 in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the 2020 IRUWMP and issues related thereto; and,

WHEREAS, pursuant to said public hearing on the 2020 IRUWMP, South Mesa Water Company, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within South Mesa Water

Company's service area and encouraged community input, regarding the 2020 IRUWMP; and,

WHEREAS, the Board of Directors has reviewed and considered the purposes and requirements of the IRWM Act and the UWMP Act, the contents of the 2020 IRUWMP, and the documentation contained in the administrative record in support of the 2020 IRUWMP, and has determined that the factual analyses and conclusions set forth in the 2020 IRUWMP are legally sufficient; and,

WHEREAS, the Board of Directors desires to adopt Part 1; Part 2, Chapter 9; Part 3; and, Part 4, Appendix I, of the 2020 IRUWMP in order to comply with the IRWM Act and UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of South Mesa Water Company hereby resolve as follows:


1. Part 1; Part 2, Chapter 9; Part 3; and, Part 4 Appendix I of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Board of Directors;
2. The General Manager is hereby authorized and directed to include a copy of this Resolution in South Mesa Water Company's 2020 UWMP;
3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the South Mesa Water Company portions of the 2020 IRUWMP to DWR no later than July 1, 2021;
4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which South Mesa Water Company provides water supplies no later than thirty (30) days after this adoption date;
5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at the South Mesa Water Company offices during normal business hours and on South

Mesa Water Company's website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;

6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which The Board of Directors provides water supplies no later than sixty (60) days after submitting a copy to DWR;

7. The General Manager is hereby authorized and directed to implement the 2020 IRUWMP in accordance with the IRWM Act and UWMP Act and to provide recommendations to the Board of Directors regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

PASSED AND ADOPTED, this 18th day of June 2021.


George Jofritsma, President

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of Resolution 1504 adopted by the BOARD OF DIRECTORS of SOUTH MESA WATER COMPANY at its public hearing held on JUNE 18, 2021.


Tammy Brown, Secretary-Treasurer

I-4: Agreements

Not used. SMWC does not have any relevant Agreements referenced in their UWMP.
See Part 3 Appendix B for regional agreements that may apply to SMWC.

I-5: DWR Population Tool Output

Not Used. SMWC did not use the DWR Population Tool.

I-6: DWR Tables

Submittal Table 2-1 Retail Only: Public Water Systems

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020 *
<i>Add additional rows as needed</i>			
CA3310017	SMWC	2,978	2,270
TOTAL		2,978	2,270

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

NOTES:

Submittal Table 2-2: Plan Identification		
Select Only One	Type of Plan	Name of RUWMP or Regional Alliance <i>if applicable</i> (select from drop down list)
<input type="checkbox"/>	Individual UWMP	
	<input checked="" type="checkbox"/> Water Supplier is also a member of a RUWMP	San Bernardino Valley Municipal Water District
	<input type="checkbox"/> Water Supplier is also a member of a Regional Alliance	
<input checked="" type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)	
NOTES:		

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input type="checkbox"/>	Supplier is a wholesaler
<input checked="" type="checkbox"/>	Supplier is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years
<input type="checkbox"/>	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP * (select from drop down)	
Unit	AF
<i>* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>	
NOTES:	

Submittal Table 2-4 Retail: Water Supplier Information Exchange

The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.

Wholesale Water Supplier Name

Add additional rows as needed

NOTES: N/A

Submittal Table 3-1 Retail: Population - Current and Projected

Population Served	2020	2025	2030	2035	2040	2045(<i>opt</i>)
	9,941	10,294	10,659	11,037	11,429	11,835

NOTES:

Submittal Table 4-1 Retail: Demands for Potable and Non-Potable¹ Water - Actual

Use Type	2020 Actual		
<p>Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool</p>	<p>Additional Description (as needed)</p>	<p>Level of Treatment When Delivered Drop down list</p>	<p>Volume²</p>
Add additional rows as needed			
Single Family		Drinking Water	1,387
Multi-Family		Drinking Water	349
Commercial		Drinking Water	242
Landscape	schools/parks	Drinking Water	108
Industrial		Drinking Water	1
Losses		Drinking Water	183
TOTAL			2,270

¹ Recycled water demands are NOT reported in this table. Recycled water demands are reported in Table 6-4. ²
 Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES:

Submittal Table 4-3 Retail: Total Water Use (Potable and Non-Potable)

	2020	2025	2030	2035	2040	2045 (opt)
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	2,270	2,380	2,499	2,624	2,755	2,893
Recycled Water Demand ¹ <i>From Table 6-4</i>	0	0	0	0	0	0
Optional Deduction of Recycled Water Put Into Long- Term Storage ²	0	0	0	0	0	0
TOTAL WATER USE	2,270	2,380	2,499	2,624	2,755	2,893

¹ Recycled water demand fields will be blank until Table 6-4 is complete ²
 Long term storage means water placed into groundwater or surface storage that is not removed from storage in the same year. Supplier **may** deduct recycled water placed in long-term storage from their reported demand. This value is manually entered into Table 4-3.

NOTES:

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ^{1,2}
01/2016	151
01/2017	239
01/2018	91
01/2019	184
01/2020	183

¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet. ²
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES: Water loss reporting was not required prior as SMWC did not meet the definition of an Urban Water Supplier. Therefore,

Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections

Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i>	No
If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found.	
Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i>	Yes

NOTES:

Submittal Table 5-1 Baselines and Targets Summary
From SB X7-7 Verification Form
Retail Supplier or Regional Alliance Only

Baseline Period	Start Year *	End Year *	Average Baseline GPCD*	Confirmed 2020 Target*
10-15 year	2001	2010	281	225
5 Year	2006	2010	263	

**All cells in this table should be populated manually from the supplier's SBX7-7 Verification Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 5-2: 2020 Compliance
SB X7-7 2020 Compliance Form
Retail Supplier or Regional Alliance Only

From

2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
204	0	204	225	Yes

**All cells in this table should be populated manually from the supplier's SBX7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 6-1 Retail: Groundwater Volume Pumped

Supplier does not pump groundwater.
The supplier will not complete the table below.

All or part of the groundwater described below is desalinated.

Groundwater Type <i>Drop Down List</i> May use each category multiple times	Location or Basin Name	2016*	2017*	2018*	2019*	2020*
--	------------------------	-------	-------	-------	-------	-------

Add additional rows as needed

Alluvial Basin	Yucaipa Sub-basin (DWR 8-02.07)	1,863	2,009	2,001	1,718	2,041
Alluvial Basin	San Timoteo Sub-basin (DWR 8-02.08)	353	368	365	300	229
TOTAL		2,216	2,377	2,366	2,018	2,270

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

NOTES:

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020

There is no wastewater collection system. The supplier will not complete the table below.

Percentage of 2020 service area covered by wastewater collection system *(optional)*

Percentage of 2020 service area population covered by wastewater collection system *(optional)*

Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected from UWMP Service Area 2020 *	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i> <i>Drop Down List</i>
Yucaipa Valley Water District	Estimated	835	Yucaipa Valley Water District	Henry N. Wochholz WWTP	No	No
Total Wastewater Collected from Service Area in 2020:		835				

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

NOTES:

Submittal Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2020

No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table below.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number (optional) ²	Method of Disposal <i>Drop down list</i>	Does This Plant Treat Wastewater Generated Outside the Service Area? <i>Drop down list</i>	Treatment Level <i>Drop down list</i>	2020 volumes ¹				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area	Instream Flow Permit Requirement
Total							0	0	0	0	0

¹ Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.
² If the **Wastewater Discharge ID Number** is not available to the UWMP preparer, access the SWRCB CIWQS regulated facility website at <https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/CiwqsReportServlet?inCommand=reset&reportName=RegulatedFacility>

NOTES:

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area

Recycled water is not used and is not planned for use within the service area of the supplier.
The supplier will not complete the table below.

Name of Supplier Producing (Treating) the Recycled Water:	
Name of Supplier Operating the Recycled Water Distribution System:	
Supplemental Water Added in 2020 (volume) <i>Include units</i>	
Source of 2020 Supplemental Water	

Beneficial Use Type <i>additional rows if needed.</i>	<i>Insert</i> Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity) <i>Include volume units¹</i>	General Description of 2020 Uses	Level of Treatment <i>Drop down list</i>	2020 ¹	2025 ¹	2030 ¹	2035 ¹	2040 ¹	2045 ¹ (opt)
Agricultural irrigation										
Landscape irrigation (exc golf courses)										
Golf course irrigation										
Commercial use										
Industrial use										
Geothermal and other energy production										
Seawater intrusion barrier										
Recreational impoundment										
Wetlands or wildlife habitat										
Groundwater recharge (IPR)										
Reservoir water augmentation (IPR)										
Direct potable reuse										
Other (Description Required)										
Total:					0	0	0	0	0	0

2020 Internal Reuse

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

NOTES:

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual



Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table below. If recycled water was not used in 2020, and was not predicted to be in 2015, then check the box and do not complete the table.

Beneficial Use Type	2015 Projection for 2020 ¹	2020 Actual Use ¹
<i>Insert additional rows as needed.</i>		
Agricultural irrigation		
Landscape irrigation (exc golf courses)		
Golf course irrigation		
Commercial use		
Industrial use		
Geothermal and other energy production		
Seawater intrusion barrier		
Recreational impoundment		
Wetlands or wildlife habitat		
Groundwater recharge (IPR)		
Reservoir water augmentation (IPR)		
Direct potable reuse		
Other (Description Required)		
Total	0	0

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

NOTE:

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use

<input checked="" type="checkbox"/>	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.
-------------------------------------	---

	Provide page location of narrative in UWMP
--	--

Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use *
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Add additional rows as needed

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Total			0
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***Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.**

NOTES:

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List</i>	Expected Increase in Water Supply to Supplier* <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Supplier Name</i>				

Add additional rows as needed

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

NOTES:

Submittal Table 6-8 Retail: Water Supplies — Actual

Water Supply	Additional Detail on Water Supply	2020		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool		Actual Volume*	Water Quality Drop Down List	Total Right or Safe Yield* (optional)
Add additional rows as needed				
Groundwater (not desalinated)	Yucaipa Sub-basin	2,041	Drinking Water	
Groundwater (not desalinated)	San Timoteo Sub-basin	229	Drinking Water	
Total		2,270		0

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

NOTES:

Submittal Table 6-9 Retail: Water Supplies — Projected

Water Supply		Projected Water Supply * Report To the Extent Practicable									
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool	Additional Detail on Water Supply	2025		2030		2035		2040		2045 (opt)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
		Add additional rows as needed									
Groundwater (not desalinated)	Yucaipa Sub-basin	2,409		2,528		2,656		2,788		2,928	
Groundwater (not desalinated)	San Timoteo Sub-basin	328		345		362		380		399	
Total		2,737	0	2,873	0	3,018	0	3,168	0	3,327	0
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>											
NOTES: Reasonably available volume projections were estimated by adding a 15% safety factor to the projected demand.											

Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2019-2020, use 2020	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available *	% of Average Supply
Average Year	2020		100%
Single-Dry Year	2020		110%
Consecutive Dry Years 1st Year	2020		110%
Consecutive Dry Years 2nd Year	2020		110%
Consecutive Dry Years 3rd Year	2020		110%
Consecutive Dry Years 4th Year	2020		110%
Consecutive Dry Years 5th Year	2020		110%

Supplier may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table.

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

NOTES:

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (<i>Opt</i>)
Supply totals (<i>autofill from Table 6-9</i>)	2,737	2,873	3,018	3,168	3,327
Demand totals (<i>autofill from Table 4-3</i>)	2,380	2,499	2,624	2,755	2,893
Difference	357	374	394	413	434

NOTES:

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2025	2030	2035	2040	2045 (Opt)
Supply totals*	2,618	2,749	2,886	3,031	3,182
Demand totals*	2,618	2,749	2,886	3,031	3,182
Difference	0	0	0	0	0
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>					
NOTES:					

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison

		2025*	2030*	2035*	2040*	2045* (Opt)
First year	Supply totals	2,618	2,749	2,886	3,031	3,182
	Demand totals	2,618	2,749	2,886	3,031	3,182
	Difference	0	0	0	0	0
Second year	Supply totals	2,618	2,749	2,886	3,031	3,182
	Demand totals	2,618	2,749	2,886	3,031	3,182
	Difference	0	0	0	0	0
Third year	Supply totals	2,618	2,749	2,886	3,031	3,182
	Demand totals	2,618	2,749	2,886	3,031	3,182
	Difference	0	0	0	0	0
Fourth year	Supply totals	2,618	2,749	2,886	3,031	3,182
	Demand totals	2,618	2,749	2,886	3,031	3,182
	Difference	0	0	0	0	0
Fifth year	Supply totals	2,618	2,749	2,886	3,031	3,182
	Demand totals	2,618	2,749	2,886	3,031	3,182
	Difference	0	0	0	0	0
Sixth year <i>(optional)</i>	Supply totals	2,618	2,749	2,886	3,031	3,182
	Demand totals	2,618	2,749	2,886	3,031	3,182
	Difference	0	0	0	0	0

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

NOTES:

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b)

2021	Total
Total Water Use	2,497
Total Supplies	2,497
Surplus/Shortfall w/o WSCP Action	0
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	0%

2022	Total
Total Water Use	2,527
Total Supplies	2,527
Surplus/Shortfall w/o WSCP Action	0
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	0%

2023	Total
Total Water Use	2,557
Total Supplies	2,557
Surplus/Shortfall w/o WSCP Action	0
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	0%

2024	Total
Total Water Use	2,588
Total Supplies	2,588
Surplus/Shortfall w/o WSCP Action	0
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	0%

2025	Total
Total Water Use	2,618
Total Supplies	2,618
Surplus/Shortfall w/o WSCP Action	0
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	0
Resulting % Use Reduction from WSCP action	0%

**Submittal Table 8-1
Water Shortage Contingency Plan Levels**

Shortage Level	Percent Shortage Range	Shortage Response Actions <i>(Narrative description)</i>
1	Up to 10%	During times of normal supply, it is recommended that water conservation be practiced within the home or business and prevent the waste of unreasonable use of water. No water shall be used to clean, fill, operate or maintain levels in decorative fountains, unless the water is part of a recycled water system.
2	Up to 20%	10%-25%. In addition to the prohibitions in stage 1, stage 2 has the following savings: The washing of automobiles, trucks, trailers, boats, and other mobile equipment is prohibited unless done with a hand held device equipped with an automatic shut off trigger nozzle. This does not apply to commercial cars and trucks.
3	Up to 30%	25%-35%. Stage 3 has the following aspects, in addition to the prohibitions and actions under stage 2: Commercial nurseries shall water only between 11 PM and 6 AM using hand held devices or drip irrigation. Consumption shall be reduced by a minimum of 25%.
4	Up to 40%	35%-50%: Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses. No lawn or landscape water will be allowed. No construction water use to be allowed, construction meters to be locked off or removed.
5	Up to 50%	35%-50%: Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses. No lawn or landscape water will be allowed. No construction water use to be allowed, construction meters to be locked off or removed.
6	>50%	35%-50%: Stage 4 is the most restrictive stage. Under this stage water use is limited to essential household, commercial, manufacturing or processing uses. No lawn or landscape water will be allowed. No construction water use to be allowed, construction meters to be locked off or removed.

NOTES:

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only</i> <i>Drop Down List</i>
<i>Add additional rows as needed</i>				
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless the water is part of a recycling system.	
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Leaking plumbing fixtures shall be repaired in a timely manner so as to not waste water.	
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-1%	RestrictWater use which results in flooding or runoff should be prevented and controlled.	
1	Landscape - Other landscape restriction or prohibition	0-1%	The use of sprinklers for any type of irrigation during high winds is prohibited.	
2	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	0-3%	The washing of automobiles, trucks, trailers, boats and other mobile equipment is prohibited unless done with a hand-held device equipped with an automatic shut off trigger nozzle. This does not apply to commercial car washes utilizing a recycling water system or when the health and safety of the public would necessitate.	

Submittal Table 8-3: Supply Augmentation and Other Actions

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>
<i>Add additional rows as needed</i>			
3	Other Purchases	1-100%	Emergency

NOTES:

Submittal Table 10-1 Retail: Notification to Cities and Counties

City Name	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
City of Calimesa	Yes	Yes
City of Yucaipa	Yes	Yes
County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Riverside County	Yes	Yes
San Bernardino County	Yes	Yes
NOTES:		

I-7: SBX7-7 Forms

SB X7-7 Table 0: Units of Measure Used in 2020 UWMP*

(select one from the drop down list)

Acre Feet

**The unit of measure must be consistent throughout the UWMP, as reported in Submittal Table 2-3.*

NOTES:

SB X7-7 Table 2: Method for 2020 Population Estimate

Method Used to Determine 2020 Population
(may check more than one)

<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES:	

SB X7-7 Table 3: 2020 Service Area Population

2020 Compliance Year Population

2020	9,941
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NOTES:

SB X7-7 Table 4: 2020 Gross Water Use

Compliance Year 2020	2020 Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	2020 Deductions					2020 Gross Water Use
		Exported Water *	Change in Dist. System Storage* (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use*	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	
	2,270	-		-	-	-	2,270

* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES:

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source		Calimesa Basin	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	1,560	-	1,560
¹ Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s) Meter Error Adjustment

Complete one table for each source.

Name of Source		Live Oak Basin	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	481		481
¹ Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES:			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source Beaumont Basin

This water source is (check one) :

The supplier's own water source

A purchased or imported source

Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	229		229

¹ **Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.**

² **Meter Error**

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

NOTES:

SB X7-7 Table 5: 2020 Gallons Per Capita Per Day (GPCD)

2020 Gross Water <i>Fm SB X7-7 Table 4</i>	2020 Population <i>Fm</i> <i>SB X7-7 Table 3</i>	2020 GPCD
2,270	9,941	204

NOTES:

SB X7-7 Table 9: 2020 Compliance

Actual 2020 GPCD ¹	Optional Adjustments to 2020 GPCD					2020 Confirmed Target GPCD ^{1,2}	Did Supplier Achieve Targeted Reduction for 2020?
	Enter "0" if Adjustment Not Used			TOTAL Adjustments ¹	Adjusted 2020 GPCD ¹ <i>(Adjusted if applicable)</i>		
	Extraordinary Events ¹	Weather Normalization ¹	Economic Adjustment ¹				
204	-	-	-	-	204	225	YES

¹ All values are reported in GPCD

² **2020 Confirmed Target GPCD** is taken from the Supplier's SB X7-7 Verification Form Table SB X7-7, 7-F.

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	2,680	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	2001	
	Year ending baseline period range ³	2010	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2006	
	Year ending baseline period range ⁴	2010	

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)	
<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES:	

SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	2001	7,542
Year 2	2002	7,711
Year 3	2003	7,884
Year 4	2004	8,061
Year 5	2005	8,243
Year 6	2006	8,429
Year 7	2007	8,619
Year 8	2008	8,814
Year 9	2009	9,013
Year 10	2010	9,218
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2006	8,429
Year 2	2007	8,619
Year 3	2008	8,814
Year 4	2009	9,013
Year 5	2010	9,218

NOTES:

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

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Acre Feet
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	Annual Gross Water Use
10 to 15 Year Baseline - Gross Water Use							
Year 1	2001	2,575	-	-	-	-	2,575
Year 2	2002	2,795	-	-	-	-	2,795
Year 3	2003	2,642	-	-	-	-	2,642
Year 4	2004	2,641	-	-	-	-	2,641
Year 5	2005	2,548	-	-	-	-	2,548
Year 6	2006	2,711	-	-	-	-	2,711
Year 7	2007	2,840	-	-	-	-	2,840
Year 8	2008	2,680	-	-	-	-	2,680
Year 9	2009	2,514	-	-	-	-	2,514
Year 10	2010	2,222	-	-	-	-	2,222
Year 11	0	-					-
Year 12	0	-					-
Year 13	0	-					-
Year 14	0	-					-
Year 15	0	-					-
10 - 15 year baseline average gross water use							2,617
5 Year Baseline - Gross Water Use							
Year 1	2006	2,711	-	-	-	-	2,711
Year 2	2007	2,840	-	-	-	-	2,840
Year 3	2008	2,680	-	-	-	-	2,680
Year 4	2009	2,514	-	-	-	-	2,514
Year 5	2010	2,222	-	-	-	-	2,222
5 year baseline average gross water use							2,593
* 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 Calimesa Basin

This water source is:

- The supplier's own water source
- A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	2001	1,414	1,414
Year 2	2002	1,484	1,484
Year 3	2003	1,519	1,519
Year 4	2004	1,455	1,455
Year 5	2005	1,326	1,326
Year 6	2006	1,418	1,418
Year 7	2007	1,448	1,448
Year 8	2008	1,348	1,348
Year 9	2009	1,305	1,305
Year 10	2010	1,156	1,156
Year 11	0		-
Year 12	0		-
Year 13	0		-
Year 14	0		-
Year 15	0		-

5 Year Baseline - Water into Distribution System

Year 1	2006	1,418	1,418
Year 2	2007	1,448	1,448
Year 3	2008	1,348	1,348
Year 4	2009	1,305	1,305
Year 5	2010	1,156	1,156

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 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Live Oak Basin

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	2001	608		608
Year 2	2002	776		776
Year 3	2003	779		779
Year 4	2004	691		691
Year 5	2005	586		586
Year 6	2006	648		648
Year 7	2007	726		726
Year 8	2008	861		861
Year 9	2009	827		827
Year 10	2010	661		661
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0

5 Year Baseline - Water into Distribution System

Year 1	2006	648		648
Year 2	2007	726		726
Year 3	2008	861		861
Year 4	2009	827		827
Year 5	2010	661		661

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 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Beaumont Basin

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	2001	553	553
Year 2	2002	535	535
Year 3	2003	344	344
Year 4	2004	495	495
Year 5	2005	636	636
Year 6	2006	645	645
Year 7	2007	666	666
Year 8	2008	471	471
Year 9	2009	382	382
Year 10	2010	405	405
Year 11	0		0
Year 12	0		0
Year 13	0		0
Year 14	0		0
Year 15	0		0

5 Year Baseline - Water into Distribution System

Year 1	2006	645	645
Year 2	2007	666	666
Year 3	2008	471	471
Year 4	2009	382	382
Year 5	2010	405	405

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

² **Meter Error Adjustmen t** - 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 <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	2001	7,542	2,575	305
Year 2	2002	7,711	2,795	324
Year 3	2003	7,884	2,642	299
Year 4	2004	8,061	2,641	292
Year 5	2005	8,243	2,548	276
Year 6	2006	8,429	2,711	287
Year 7	2007	8,619	2,840	294
Year 8	2008	8,814	2,680	271
Year 9	2009	9,013	2,514	249
Year 10	2010	9,218	2,222	215
<i>Year 11</i>	0	-	-	
<i>Year 12</i>	0	-	-	
<i>Year 13</i>	0	-	-	
<i>Year 14</i>	0	-	-	
<i>Year 15</i>	0	-	-	
10-15 Year Average Baseline GPCD				281
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2006	8,429	2,711	287
Year 2	2007	8,619	2,840	294
Year 3	2008	8,814	2,680	271
Year 4	2009	9,013	2,514	249
Year 5	2010	9,218	2,222	215
5 Year Average Baseline GPCD				263

NOTES:

SB X7-7 Table 6: Baseline GPCD *Summary*
From Table SB X7-7 Table 5

10-15 Year Baseline GPCD	281
5 Year Baseline GPCD	263

NOTES:

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

Target Method		Supporting Tables
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator <i>Located in the WUE Data Portal at wuedata.water.ca.gov Resources button</i>

NOTES:

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

20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
281	225
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	
263	250	225			225

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:

I-8: AWWA Water Audits

Not Used. SMWC has not previously prepared annual AWWA Water Audits because it did not meet the definition of an Urban Water Supplier.

I-9: Water Shortage Contingency Plan

South Mesa Water Company Water Shortage Contingency Plan

JUNE 2021

South Mesa Water Company





Water Shortage Contingency Plan

South Mesa Water Company

JUNE 2, 2021

Prepared by Water Systems Consulting, Inc.



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ACRONYMS & ABBREVIATIONS

AWIA	American Water Infrastructure Association
BTAC	Basin Technical Advisory Committee
CWC	California Water Code
CII	Commercial, Industrial, and Institutional
DWR	California Department of Water Resources
DRA	Drought Risk Assessment
ERP	Emergency Response Plan
GW	Groundwater
IRUWMP	Integrated Regional Urban Water Management Plan
RRA	Risk and Resilience Assessment
SWP	State Water Project
UWWP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

WATER SHORTAGE CONTINGENCY PLAN

South Mesa Water Company

This Water Shortage Contingency Plan is a strategic plan that the South Mesa Water Company uses to prepare for and respond to water shortages¹.

The Water Shortage Contingency Plan (WSCP) is a strategic plan that South Mesa Water Company (SMWC) has been prepared in order to respond to foreseeable and unforeseeable water shortages. A water shortage occurs when water supply availability becomes insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to a number of reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that SMWC will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation measures. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help SMWC maintain reliable supplies intended to reduce the impacts of supply shortages and/or interruptions should they occur.

This WSCP was prepared in conjunction with SMWC's 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is intended to be compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

IN THIS SECTION

- Water Supply Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Levels and Response Actions

¹ This WSCP was prepared by SMWC and its consultant, Land Engineering Consultants, Inc.

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes SMWC's water supply capabilities and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage levels and response actions.
3. **Six Shortage Levels:** Establishes water shortage benchmark levels to identify and prepare for shortages.
4. **Shortage Response Actions:** Describes response actions that can be implemented or considered for each level to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols at each level to ensure customers, the public, and government agencies are informed of shortage conditions and provides guidance requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant SMWC the authority to declare a water shortage, and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage levels and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results will be used to determine if additional shortage response actions should be activated or if efforts are successful and response actions can be reduced or cancelled.
10. **WSCP Refinement Procedures:** Describes factors that may trigger updates to the WSCP and outlines how SMWC would complete an update.
11. **Special Water Features Distinctions:** Water use for decorative features would be limited unless necessary to sustain aquatic life. Decorative features include ornamental fountains, ponds, and other aesthetic features.
12. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, SMWC completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods. As described in [Part 1 Chapter 3](#) of the 2020 IRUWMP, the effects of a local drought are not immediately recognized since the region uses the local groundwater basins to simulate a large reservoir for long term storage. SMWC is able to pump additional groundwater to meet increased demands in dry years and is moving forward with plans to secure the ability to participate in replenishing the basins with imported and local water through regional recharge programs. Based on the analysis, SMWC does not anticipate supply shortage due to single or consecutive dry years. Even though localized drought conditions should not affect supply, SMWC participates in several ongoing water conservation measures and is planning regional recharge projects to optimize and enhance the use of regional water resources. SMWC will use this WSCP as appropriate to reduce the demand during critical drought years or other supply emergencies.

A Drought Risk Assessment (DRA) was also performed to analyze supply reliability for the next five years, 2021 through 2025. Similarly, the results show that SMWC's water supply is reliable and not expected to see impactful change under drought conditions.

2.0 Annual Water Supply and Demand Assessment

Urban water suppliers must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). SMWC currently supplies water to just under 3,000 connections but anticipates exceeding that level in the very near future. SMWC anticipates that starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage level and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to SMWC at the time of analysis and can be update, or revised should circumstances change.

SMWC will convene its WSCP Team to conduct the Annual Assessment each year. The WSCP Team will primarily include the following staff:

- **General Manager**
- **Operations Manager**
- **Office Manager**

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in [Table 1](#).

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus anticipated changes	General Manager and/or Operations Manager
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	The Yucaipa Sustainable Groundwater Management Agency (Yucaipa GSA) works with local water purveyors to manage and maintain long term supply reliability and is not anticipated to be impacted in dry years. SMWC is part of the Beaumont Basin Watermaster (BBW), which manages longer term supply reliability. SMWC maintains storage within the Beaumont Basin which can be utilized during dry years.	General Manager and/or Operations Manager
JAN - FEB	Consider potential constraints that may impact supply delivery	<p>Identify regional or SMWC infrastructure issues that would pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that would temporarily constrain capabilities, as well as new projects that would add to system capacity.</p> <p>Identify facilities out of service due to water quality problems, equipment failure, etc. that would impact normal water deliveries.</p> <p>Identify potential or emerging impacts to groundwater quality, such as emerging regulatory constraints that would limit use of available supplies for potable needs.</p>	General Manager and/or Operations Manager
FEB	Conduct Annual Assessment	<p>Compare supplies and demands and discuss constraints that would impact supply delivery. If the potential for a shortage exists, determine which shortage response level and actions are recommended to reduce/eliminate the shortage.</p> <p>Additionally, if the State declares a drought emergency and requires demand reductions, the WSCP Team will determine which water shortage level and response actions are needed to comply with the State mandate.</p>	WSCP Team

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JUNE	Board of Directors	If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the SMWC Board of Directors, including the recommended shortage level and response actions. The Board of Directors would order the implementation of a shortage level and adopt a resolution declaring the applicable water shortage level.	General Manager Board of Directors
ON-GOING	Implement WSCP actions, if needed	Relevant members of SMWC staff will implement shortage response actions associated with the declared water shortage level	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

3.0 Water Shortage Levels

If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage levels and response actions that SMWC would implement.

SMWC uses four shortage levels to identify and respond to water shortage emergencies. At a minimum, SMWC encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Level I – Normal Conditions:

During times of normal supply, recommends that water conservation be practiced within the home or business to prevent the waste of unreasonable use of water.

Level II – Water Alert Conditions:

In addition to Level 1, Level 2 includes demand reduction actions as outlined in Table 4.

Level III: Water Warning Conditions:

In addition to Level 2, Level 3 includes demand reduction actions as outlined in Table 4.

Level IV: Water Emergency Conditions:

Level 4 is the most restrictive level. Under this level water use is limited to essential household, commercial, manufacturing or processing uses. No lawn or landscape water will be allowed. No construction water use to be allowed, construction meters are to be locked off or removed.

The Water Code outlines six standard water shortage levels that correspond to a gap in supply compared to normal year availability. The six standard water shortage levels correspond to

progressively increasing estimated shortage conditions (up to 10-, 20-, 30-, 40-, 50-percent, and greater than 50-percent shortage compared to the normal reliability condition) and align with the response actions that a water supplier would implement to meet the severity of the impending shortages.

The Water Code allows suppliers with an existing water shortage contingency plan to use different water shortage levels by developing a cross-reference to its existing shortage. SMWC is including four shortage levels for this WSCP. A crosswalk defines how SMWC’s current water shortage levels will align with DWR’s standardized 6 levels of shortage. A visual representation of this alignment is shown in **Figure 1** below:



Figure 1. Crosswalk to DWR Six Standard Levels

Table 2: DWR 8-1 Water Shortage Contingency Plan Levels

SHORTAGE LEVEL	PERCENT SHORTAGE RANGE ¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Normal Condition (SMWC Level 1)
2	Up to 20%	Water Alert Condition (SMWC Level 2)
3	Up to 30%	Water Warning Condition (SMWC Level 3)
4	Up to 40%	Water Emergency Condition (SMWC Level 4)
5	Up to 50%	Water Emergency Condition (SMWC Level 4)
6	>50%	Water Emergency Condition (SMWC Level 4)

¹ One level in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

This section was completed pursuant to CWC Section 10632(a)(4) and 10632.5(a) and describes the response actions that must be considered or implemented for each level to minimize social and economic impacts to the community. In accordance with Water Code 10632(b) SMWC analyzes and defines water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions SMWC would consider in the event of a water shortage condition. SMWC maintains an interconnection with Yucaipa Valley Water District (YVWD). During water shortage emergencies, SMWC would consider obtaining supplemental water supply through the connection if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE LEVEL	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
3	Other purchases	0-100%	Emergency Inter-Tie with YVWD

4.2 Demand Reduction

In addition to prohibitions on end uses, SMWC has a water rate structure that promotes efficiency. Table 4 summarizes these efforts and end use prohibitions.

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE LEVEL	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless the water is part of a recycling system.	Yes
1	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	No water shall be used to clean, fill, operate or maintain levels in decorative fountains unless the water is part of a recycling system.	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Leaking plumbing fixtures shall be repaired in a timely manner so as to not waste water.	Yes

SHORTAGE LEVEL	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0-1%	Water use which results in flooding or run-off should be prevented and controlled.	Yes
1	Landscape - Other landscape restriction or prohibition	0-1%	The use of sprinklers for any type of irrigation during high winds is prohibited.	Yes
2	Other - Prohibit vehicle washing except at facilities using recycled or recirculated water	0-3%	The washing of automobiles, trucks, trailers, boats and other mobile equipment is prohibited unless done with a hand-held device equipped with an automatic shut off trigger nozzle. This does not apply to commercial car washes utilizing a recycling water system or when the health and safety of the public would necessitate.	Yes
2	Landscape - Limit landscape irrigation to specific times	0-5%	Commercial nurseries shall water only between 11 P.M. and 6 A.M. using hand-held devices or drip irrigation.	Yes
2	Landscape - Restrict or prohibit runoff from landscape irrigation	0-5%	School grounds, residential, and publicly owned lawns shall prevent run-off from irrigation activities.	Yes
2		0-1%	There shall be no washing of driveways or sidewalks.	Yes
2	Other - Prohibit use of potable water for washing hard surfaces	0-1%	All restaurants prohibited from serving water to their customers except upon specific request.	Yes
3	CII - Restaurants may only serve water upon request	0-15%	School grounds, residential, and publicly owned lawns to be watered on Company approved schedule for hours and days of the week. Consumption shall be reduced by a minimum of 35%.	Yes
3	Landscape - Limit landscape irrigation to specific days	0-1%	Swimming pools and fountains are not to be refilled after draining.	Yes

SHORTAGE LEVEL	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE	PENALTY, CHARGE, OR OTHER ENFORCEMENT
4		0-1%	No construction water uses to be allowed, construction meters to be locked off or removed.	Yes
4	Other water feature or swimming pool restriction	10-30%	No lawn or landscape water will be allowed.	Yes
4	Other - Prohibit use of potable water for construction and dust control	10-20%	Water use limited to essential household, commercial, manufacturing or processing uses.	Yes

4.3 Operational Changes and Additional Mandatory Restrictions

There are no operational changes or additional mandatory restrictions beyond the actions listed in [Table 3](#) and [Table 4](#) implemented in response to the declaration of a shortage response stage.

4.4 Emergency Response Plan

In 2021, SMWC completed a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP) in accordance with America's Water Infrastructure Act (AWIA) of 2018. The purpose of the RRA and ERP is to meet the AWIA compliance requirements and plan for long-term resilience of SMWC's infrastructure. The RRA assesses SMWC's water system to identify critical assets and processes that may be vulnerable to human and natural hazards, and to identify measures that can be taken to reduce risk and enhance resilience from service disruption for the benefit of customers. The RRA identifies and characterizes both infrastructure-specific and system-wide vulnerabilities and threats, and quantifies the consequences of disruption. The RRA identifies various options (and constraints) in addressing and mitigating risk. The RRA, in conjunction with the Emergency Response Plan (ERP), and charts a course for water system resilience. The RRA provides various recommendations to increase reliability of SMWC's system in order to meet AWIA requirements. Since critical pieces of infrastructure and specific vulnerabilities are detailed in the RRA and ERP, the contents of the document are confidential for use by SMWC only.

In the event of a water shortage emergency resulting from equipment failure, power outage, or other catastrophe, SMWC is prepared to purchase emergency water supplies from nearby agencies while repairs or other remedial actions are underway. SMWC may also implement its four-level plan for conservation, as described above, with either voluntary or mandatory reductions depending on the severity of the shortage. For severe disasters (Level 4), mandatory water use reductions are specified.

4.5 Seismic Risk Assessment and Mitigation Plan

Disasters, such as earthquakes, can and will occur without notice. In addition to the AWIA RRA and ERP which will specifically address seismic risk and mitigation plans, SMWC has emergency response procedures that include guidelines for response actions if an emergency due to an earthquake were to occur.

The SMWC service area is a high-risk area for earthquakes and seismic activity. A seismic event would affect all SMWC facilities such as; wells, reservoirs, and booster stations. If SMWC's distribution systems are damaged or disrupted, the company will follow protocols detailed in their ERP.

SMWC has five storage reservoirs which hold approximately 7.0 million gallons, which is sufficient water to meet the health and safety requirements of 50 gallons per day per capita for the 3,000 customers for 30 days. This assumes zero non-residential use. SMWC also has interconnections with an adjacent agency for emergency supplies.

SMWC has portable back-up generators that can be used in the event of an area wide power outage. These generators are located at wells and booster stations throughout the system to continue water production.

4.6 Shortage Response Action Effectiveness

SMWC has estimated the effectiveness of shortage response actions when data pertaining to such actions is available. Estimates of the effectiveness for actions has been included in the DWR submittal tables. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts.

5.0 Communication Protocols

SMWC's plan prioritizes effective communication, should a water shortage emergency occur. SMWC will communicate to customers about details on when a specific level is announced. Communication actions would include bill inserts, handouts, informative flyers, and direct mail pieces to newspaper and bus shelter advertisements, news releases, social media outreach, and website content. SMWC provides water system reports to its customers and encourages conservation at all times.

6.0 Compliance and Enforcement

SMWC would implement the following mechanisms to enforce the water use prohibitions:

First Warning – issuance of written warning to the water user by placement of door-hanger message.

Second Warning – issuance of written warning to the water user by placement of door hanger with message stating that failure to comply will result in a Notice of Violation being issued together with a fine or surcharge of \$100 imposed on the water account.

First Notice of Violation – a fine or surcharge of \$100 is imposed on the water account.

Second Notice of Violation – a fine or surcharge of \$200 is imposed on the water account.

Third Notice of Violation – a fine or surcharge of \$500 and/or the installation of a flow restricting device on the water meter at the Board of Directors discretion.

7.0 Legal Authorities

SMWC has an Emergency Response Plan that details preparedness and procedures in order to respond to emergencies. A Water Shortage Contingency Plan was prepared by SMWC in 2014, and this Water Shortage Contingency Plan will be adopted in 2021.

In accordance with Water Code Section Division 1, Section 350, the SMWC Board of Directors shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.1 Water Shortage Emergency Declaration

In accordance with Water Code Section Division 1, Section 350 – the SMWC Board of Directors shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, SMWC shall coordinate with the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

During levels 2 through 4 of the SMWC Water Shortage Contingency Plan, water consumption will decrease based on each individual level and the amount of reduction goal achieved. The impacts of these reductions will result in a reduction in water sales revenues and a reduction of water production expenditures. In order to mitigate the financial impacts of a water shortage, SMWC maintains reserve funds within its account. These funds would be used to stabilize water rates during periods of water shortage or disasters affecting the water supply. Even with these reserves, rate increases may be necessary during a prolonged water shortage, to reflect the cost of service to provide water to SMWC shareholders.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared with pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports would be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is prepared and would be implemented as an adaptive management plan. SMWC will use results obtained from their monitoring and reporting program to evaluate needs for revisions. Changes to the WSCP that would warrant an update include, but are not limited to, changes to trigger conditions, changes to the shortage level structure, and/or changes to customer reduction actions.

Prospective changes to the WSCP would need to be presented to SMWC's Board for discretionary approval. Once discretionary approval has been granted, SMWC will hold a public hearing, obtain comments and adopt the updated WSCP. Notices for refinement and the public hearing date would be published in the local newspaper in advance of any public meeting.

11.0 Plan Adoption, Submittal and Availability

SMWC adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in May 2021 and a public hearing was held on **June 18, 2021** to receive public input on the draft 2020 IRUWMP and the WSCP.

The SMWC Board of Directors adopted the 2020 IRUWMP and the WSCP at a public meeting on **June 18, 2021**. The resolution of adoption is included as an attachment.

This WSCP was submitted to DWR through the WUEData portal before the deadline of July 1, 2021.

This WSCP will be available to the public on SMWC web site.

If SMWC identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

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California Department of Water Resources. (2021). *Urban Water Management Plan Guidebook 2020*. Sacramento: California Department of Water Resources.

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United States Environmental Protection Agency, Office of Water. (2002). *Cases in Water Conservation: How Efficiency Programs Help Water Utilities Save Water and Avoid Costs*. United States Environmental Protection Agency.

Attachment 1: Adoption Resolution

RESOLUTION 1505

**RESOLUTION OF THE BOARD OF DIRECTORS OF SOUTH MESA WATER
COMPANY ADOPTING A WATER SHORTAGE CONTINGENCY PLAN**

WHEREAS, The California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000- acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a water shortage contingency plan (WSCP); and,

WHEREAS, South Mesa Water Company anticipates that it will soon meet the definition of an urban water supplier for purposes of the UWMP Act, seeks to be proactive and to maximize efficient use of resources and information by voluntarily participating in cooperative regional water management planning efforts with the other agencies, and seeks to be proactive in preparing for potential water shortage contingencies; and,

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and,

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and,

WHEREAS, South Mesa Water Company has prepared a WSCP in accordance with the UWMP Act and SB X7-7, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and,

WHEREAS, the WSCP references and incorporates the provisions of SMWC's previous WSCP prepared in 2014; and,

WHEREAS, in accordance with the UWMP Act, South Mesa Water Company has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and,

WHEREAS, in accordance with applicable law, including Water Code sections 10608.26 and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding South Mesa Water Company's WSCP was published within the jurisdiction of South Mesa Water Company on June 4, 2021 and June 11, 2021; and,

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 16, 2021 at 4:00 PM, or soon thereafter, in the boardroom of the offices of the South Mesa Water Company, 391 W. Avenue L, Calimesa, CA 92320 in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and

WHEREAS, pursuant to said public hearing on the WSCP, South Mesa Water Company, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within South Mesa Water Company's service area and encouraged community input, regarding the 2020 WSCP; and,

WHEREAS, the Board of Directors has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and

WHEREAS, the Board of Directors desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of the South Mesa Water Company hereby resolve as follows:

1. The South Mesa Water Company 2020 WSCP is hereby adopted as amended by changes incorporated by the Board of Directors a result of input received (if any) at the public hearing and ordered filed with the Secretary of the Board of Directors;

2. The General Manager is hereby authorized and directed to include a copy of this Resolution in South Mesa Water Company's WSCP;

3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;

4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or county within which South Mesa Water Company's provides water supplies no later than thirty (30) days after this adoption date;


5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at the South Mesa Water Company's offices during normal business hours and on South Mesa Water Company's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;

6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which South Mesa Water Company provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;

7. The General Manager – David Armstrong is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide

recommendations to the Board of Directors regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

PASSED AND ADOPTED, this 18th day of June 2021.


George Jorffitsma, President

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of Resolution 1505 adopted by the BOARD OF DIRECTORS of SOUTH MESA WATER COMPANY at its public hearing held on JUNE 18, 2021.


Tammy Brown, Secretary-Treasurer

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2020 IRUWMP Part 4 Yucaipa Valley Water District Appendix K



K-1: UWMP Compliance Checklist

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 11 Part 1 Chapter 3
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	Part 2 Chapter 11 Executive Summary
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	Part 2 Chapter 11
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	Part 1 Chapter 1
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	Part 4 Appendix K-2
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	Part 1 Chapter 5
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
Section 3.1	10631(a)	Describe the water supplier service area.	System Description	Part 2 Chapter 11 Section 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 3.3	10631(a)	Describe the climate of the service area of the supplier.	System Description	Part 1 Chapter 2 Part 2 Chapter 11 Section 3.2
Section 3.4	10631(a)	Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045.	System Description	Part 2 Chapter 11 Section 3.3.1
Section 3.4.2	10631(a)	Describe other social, economic, and demographic factors affecting the supplier's water management planning.	System Description	Part 2 Chapter 11 Section 3.3.2
Sections 3.4 and 5.4	10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Part 2 Chapter 11 Section 3.3.1
Section 3.5	10631(a)	Describe the land uses within the service area.	System Description	Part 3 Chapter 3 Section 1.2 Part 2 Chapter 11 Section 3.4
Section 4.2	10631(d)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Part 2 Chapter 11 Section 4
Section 4.2.4	10631(d)(3)(C)	Retail suppliers shall provide data to show the distribution loss standards were met.	System Water Use	Part 2 Chapter 11 Section 4.2
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	Part 2 Chapter 11 Section 4.2
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	Part 2 Chapter 11 Section 4.2
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	Part 2 Chapter 11 Section 4.2
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	Part 2 Chapter 11 Section 4.3
Section 4.5	10635(b)	Demands under climate change considerations must be included as part of the drought risk assessment.	System Water Use	Part 2 Chapter 11 Section 4.4 Part 1 Chapter 5
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,	Baselines and Targets	Part 2 Chapter 11 Section 5

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		including references to supporting data.		
Chapter 5	10608.24(a)	Retail suppliers shall meet their water use target by December 31, 2020.	Baselines and Targets	Part 2 Chapter 11 Section 5.2
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
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	Part 2 Chapter 11 Section 5
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	Part 4 Appendix K-7
Section 5.5 and Appendix K	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	Part 4 Appendix K-7
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	Part 2 Chapter 11 Section 6 Part 2 Chapter 11 Section 7 Part 1 Chapter 5
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, <i>including changes in supply due to climate change.</i>	System Supplies	Part 2 Chapter 11 Section 7 Part 1 Chapter 5
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	Part 2 Chapter 11 Section 6 Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
Section 6.1.1	10631(b)(3)	Describe measures taken to acquire and develop planned sources of water.	System Supplies	Part 2 Chapter 11 Section 6 Part 1 Chapter 3
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	Part 2 Chapter 11 Section 6.10.2 Part 1 Chapter 5
Section 6.2	10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Part 2 Chapter 11 Section 4.2
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	Part 2 Chapter 11 Section 4.2 Part 1 Chapter 3
Section 6.2.2	10631(b)(4)(B)	Describe the groundwater basin.	System Supplies	Part 2 Chapter 11 Section 4.2 Part 1 Chapter 3
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	Part 1 Chapter 3 Part 3 Appendix A
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	Part 1 Chapter 3
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	Part 2 Chapter 11 Section 6.3.4
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	Part 2 Chapter 11 Section 6
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	Part 2 Chapter 11 Section 6
Section 6.2.5	10633(b)	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise	System Supplies (Recycled Water)	Part 2 Chapter 11 Section 6

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		available for use in a recycled water project.		
Section 6.2.5	10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Part 2 Chapter 11 Section 6
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)	Part 2 Chapter 11 Section 6 Part 1 Chapter 3
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)	Part 2 Chapter 11 Section 6 Part 1 Chapter 3
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)	Part 1 Chapter 3
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)	Part 1 Chapter 3
Section 6.2.6	10631(g)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Part 1 Chapter 3 Section 7
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)	Part 2 Chapter 11 Section 6
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	Part 2 Chapter 11 Section 6 Part 1 Chapter 7 Part 1 Chapter 3 Part 3 Appendix G
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	Part 2 Chapter 11 Section 6.8 Part 4 Appendix K-6
Section 7.2	10634	Provide information on the quality of existing sources of water available to the supplier and the	Water Supply Reliability Assessment	Part 1 Chapter 3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		manner in which water quality affects water management strategies and supply reliability		
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	Part 1 Chapter 3
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	Part 2 Chapter 11 Section 7 Part 1 Chapter 5
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	Part 2 Chapter 11 Section 7
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	Part 2 Chapter 11 Section 7 Part 1 Chapter 5
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	Part 2 Chapter 11 Section 7 Part 1 Chapter 5
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	Part 2 Chapter 11 Section 7 Part 1 Chapter 5
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	Part 2 Chapter 11 Section 7 Part 1 Chapter 5
Chapter 8	10632(a)	Provide a water shortage contingency plan (WSCP) with specified elements below.	Water Shortage Contingency Planning	Part 4 Appendix K-9
Chapter 8	10632(a)(1)	Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP	Water Shortage Contingency Planning	Part 4 Appendix K-9 Section 1.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix K-9 Section 10.0
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	Part 4 Appendix K-9 Section 2.0
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	Part 4 Appendix K-9 Section 2.0
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	Part 4 Appendix K-9 Section 3.0
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	Part 4 Appendix K-9 Section 3.0
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	Part 4 Appendix K-9 Section 4.1
Section 8.4	10632(a)(4)(B)	Specify locally appropriate demand reduction actions to adequately respond to shortages.	Water Shortage Contingency Planning	Part 4 Appendix K-9 Section 4.2
Section 8.4	10632(a)(4)(C)	Specify locally appropriate operational changes.	Water Shortage Contingency Planning	Part 4 Appendix K-9 Section 4.3
Section 8.4	10632(a)(4)(D)	Specify additional mandatory prohibitions against specific water use practices that are in addition	Water Shortage Contingency Planning	Part 4 Appendix K-9 Section 4.3

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		to state-mandated prohibitions are appropriate to local conditions.		
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	Part 4 Appendix K-9 Section 4.6
Section 8.4.6	10632.5	The plan shall include a seismic risk assessment and mitigation plan.	Water Shortage Contingency Plan	Part 4 Appendix K-9 Section 4.4&4.5
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	Part 4 Appendix K-9 Section 5.0
Section 8.5 and 8.6	10632(a)(5)(B) 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	Part 4 Appendix K-9 Section 5.0
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	Part 4 Appendix K-9 Section 6.0
Section 8.7	10632(a)(7)(A)	Describe the legal authority that empowers the supplier to enforce shortage response actions.	Water Shortage Contingency Planning	Part 4 Appendix K-9 Section 7.0
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	Part 4 Appendix K-9 Section 7.1
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	Part 4 Appendix K-9 Section 7.2
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	Part 4 Appendix K-9 Section 8.0
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	Part 4 Appendix K-9 Section 8.0
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	Part 4 Appendix K-9 Section 8.0

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 4 Appendix K-9 Section 9.0
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	Part 4 Appendix K-9 Section 4.0
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	Part 4 Appendix K-9 Section 11.0
Section 8.14	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	Part 4 Appendix K-9 Section 11.0
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
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	Part 2 Chapter 11 Section 10
Chapter 5	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	Part 2 Chapter 11 Section 10
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	Plan Adoption, Submittal, and Implementation	Part 2 Chapter 11 Section 10 Part 4 Appendix K-6 DWR Tables

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
		changes to the plan. Reported in Table 10-1.		
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	Part 2 Chapter 11 Section 10
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K-2 Public Outreach
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K

2020 Guidebook Location	Water Code Section	Summary as Applies to UWMP	Subject	2020 UWMP Location (Optional Column for Agency Review Use)
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K
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	Part 2 Chapter 11 Section 10 Part 4 Appendix K

K-2: Public Outreach

March 9, 2021

Shamindra Manbahal
General Manager
West Valley Water District
855 W. Baseline Road
Rialto, CA 92377

Dear Shamindra:

Yucaipa Valley Water District is in the process of developing the 2020 Urban Water Management Plan (UWMP) along with an update to the Integrated Regional Water Management Plan. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan at least once every five years. The Urban Water Management Plan is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. It is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

Yucaipa Valley Water District's UWMP is included in the regional plan named the Upper Santa Ana River Integrated Regional Urban Water Management Plan (Plan). This year the Urban Water Management Plan and the Integrated Regional Water Management Plan will be combined to provide consistency with regional projects and state reporting deadlines.

Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Upper Santa Ana River Integrated Regional Urban Water Management Plan. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Plan, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft Plan will be available for public review starting in May 2021 and our agency will hold a public hearing in June 2021, prior to adoption of the Plan. Hence we would like to solicit your input in the near future.

If your agency would like to learn more about the Upper Santa Ana River Integrated Regional Water Management Plan please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares

Jennifer Ares
Water Resource Manager

March 9, 2021

Mr. Ryan Shaw
Western Municipal Water District
14205 Meridian Parkway
Riverside, CA 92518

Dear Ryan:

Yucaipa Valley Water District is in the process of developing the 2020 Urban Water Management Plan (UWMP) along with an update to the Integrated Regional Water Management Plan. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan at least once every five years. The Urban Water Management Plan is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. It is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

Yucaipa Valley Water District's UWMP is included in the regional plan named the Upper Santa Ana River Integrated Regional Urban Water Management Plan (Plan). This year the Urban Water Management Plan and the Integrated Regional Water Management Plan will be combined to provide consistency with regional projects and state reporting deadlines.

Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Upper Santa Ana River Integrated Regional Urban Water Management Plan. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Plan, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft Plan will be available for public review starting in May 2021 and our agency will hold a public hearing in June 2021, prior to adoption of the Plan. Hence we would like to solicit your input in the near future.

If your agency would like to learn more about the Upper Santa Ana River Integrated Regional Water Management Plan please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares

Jennifer Ares
Water Resource Manager

March 23, 2021

Delivered via Email

Subject: 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California.

The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations. All of the agencies participating in the development of the 2020 IRUWMP are listed in the table on the following page, along with an indication of whether the 2020 IRUWMP serves as that agency's 2020 UWMP.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which will include the WSCPs for each of the Participating UWMP Agencies, will be available for public review on the Participating UWMP Agencies websites starting in May 2021 and each one will hold an individual public hearing on their respective chapters of the 2020 IRUWMP and WSCP, in advance of their adoption in May or June 2021. The public hearings will be noticed and announced by each Participating UWMP Agency's public meeting agenda; each agency's web site address is shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating Agency	2020 IRUWMP serves as Agency 2020 UWMP?	Agency Website
Big Bear City Community Services District	No	www.bbccsd.org
City of Big Bear Lake Department of Water	No	www.bbldwp.com
City of Colton	Yes	www.ci.colton.ca.us
City of Loma Linda	Yes	www.lomalinda-ca.gov
City of Redlands	Yes	www.cityofredlands.org
City of Rialto	Yes	www.rialtoca.gov
City of San Bernardino Municipal Water Department	Yes	www.sbmwd.org
East Valley Water District	Yes	www.eastvalley.org
Elsinore Valley Municipal Water District	No	www.evmwd.com
Fontana Water Company	No	www.fontanawater.com
Riverside Highland Water Company	Yes	www.rhwco.com
Riverside Public Utilities	No	www.riversideca.gov/utilities
San Bernardino County Flood Control District	UWMP not required	cms.sbcounty.gov/dpw
San Bernardino Valley Municipal Water District	Yes	www.sbvmd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwd.org
San Geronio Pass Water Agency	No	www.sgpwa.com
South Mesa Water Company	Yes	southmesawater.com
West Valley Water District	Yes	www.wvwd.org
Western Municipal Water District	No	www.wmwd.com
Yucaipa Valley Water District	Yes; separate notice also provided	www.yvwd.dst.ca.us

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmwd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

June 1, 2021

Delivered via Email

Subject: Notice of Public Hearings for the 2020 Integrated Regional Urban Water Management Plan for the Upper Santa Ana River Watershed

Dear Regional Stakeholder:

Notice is hereby given that the San Bernardino Valley Municipal Water District (Valley District) and its partners (Participating Agencies) are in the process of preparing the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP). The 2020 IRUWMP updates and merges the 2015 Upper Santa Ana River Watershed Integrated Regional Water Management Plan (2015 IRWMP) and the 2015 San Bernardino Valley Regional Urban Water Management Plan (2015 RUWMP) into a single comprehensive document for guiding water resource management for the Upper Santa Ana River Watershed, the first of its kind in California. The 2020 IRUWMP is being developed in compliance with the Urban Water Management Planning Act, the Integrated Regional Water Management Planning Act, and other applicable laws and regulations.

This letter serves as notice that the Participating Agencies that are using the 2020 IRUWMP as their 2020 Urban Water Management Plan (referred to hereafter as Participating UWMP Agencies), plan to adopt and submit their respective portions of the 2020 IRUWMP to the California Department of Water Resources by the July 1, 2021 deadline. The Participating UWMP Agencies will also be adopting their respective updated Water Shortage Contingency Plans (WSCPs) as part of the 2020 IRUWMP.

A draft of the 2020 IRUWMP, which includes the WSCPs for each of the Participating UWMP Agencies, is available for review at www.IRUWMP2020.com and on the websites of each Participating UWMP Agency.

Each Participating UWMP Agency will hold an individual public hearing on their respective portions of the 2020 IRUWMP and their WSCP, in advance of their adoption. The dates, times and locations of the public hearings are shown in the table on the following page.

Board of Directors and Officers

JUNE HAYES
Division 1

GIL J. BOTELLO
Division 2

SUSAN LONGVILLE
Division 3

T. MILFORD HARRISON
Division 4

PAUL R. KIELHOLD
Division 5

HEATHER P. DYER
General Manager

Participating UWMP Agency	Agency Website	Public Hearing Date and Time	Public Hearing Location
City of Colton	www.ci.colton.ca.us	June 15, 2021 at 6 pm	Virtual (see website for access information)
City of Loma Linda	www.lomalinda-ca.gov	June 29, 2021 at 7 pm	25541 Barton Road Loma Linda, California
City of Redlands	www.cityofredlands.org	June 15, 2021 at 6 pm	City Council Chambers 35 Cajon Street Redlands, California
City of Rialto	www.rialto.ca.gov	June 22, 2021 at 6:30 pm	150 S. Palm Ave Rialto, California and virtual (see website for access information)
City of San Bernardino Municipal Water Department	www.sbmwd.org	June 22, 2021 at 9:30 am	Virtual (see website for access information)
East Valley Water District	www.eastvalley.org	June 23, 2021 at 5:30 pm	Virtual (see website for access information)
Riverside Highland Water Company	www.rhwco.com	June 24, 2021 at 9 am	Virtual (see website for access information)
San Bernardino Valley Municipal Water District	www.sbvmd.com	June 15, 2021 at 2 pm	Virtual (see website for access information)
South Mesa Water Company	southmesawater.com	June 18, 2021 at 9am	391 W. Avenue L Calimesa, California
West Valley Water District	www.wvwd.org	June 17, 2021 at 7 pm	Virtual (see website for access information)
Yucaipa Valley Water District	www.yvwd.dst.ca.us	June 22, 2021 at 4 pm	Virtual (see website for access information)

Valley District and our regional partners invite you to submit comments and consult with Valley District or any of the agencies regarding the preparation of the 2020 IRUWMP. If you have any input for the 2020 IRUWMP or require additional information, please contact me directly at (909) 387-9230 or by email at matth@sbvmd.com.

Sincerely,

Matthew Howard

Matthew Howard
Water Resources Senior Project Manager
San Bernardino Valley Municipal Water District

Agency	Prefix	First Name	Last Name	Title	E-mail address
BBCCSO		Mary	Reeves	General Manager	mreeves@bbccsd.org
BBCCSO		Jerry	Griffith		jgriffith@bbccsd.org
BBLDWP		Sierra	Orr		sorr@bbldwp.com
BBLDWP		Reggie	Lamson	General Manager	RLamson@bbldwp.com
Bear Valley Mutual Water Company	Mr.	Bob	Martin	General Manager	remartinpe@gmail.com
Beaumont-Cherry Valley Water District	Mr.	Dan	Jaggers	General Manager	dan.jaggers@bcvwd.org
Big Bear Area Regional Wastewater Agency		David	Lawrence	General Manager	dlawrence@bbarwa.org
Big Bear Municipal Water District		Mike	Stephenson	General Manager	mstephenson@bbmwd.net
Cal. State San Bernardino/Water Resources Institute	Ms.	Suzie	Earp	Interim Director	earps@csusb.edu
California Regional Water Quality Control Board, Santa Ana Region	Ms.	Hope	Smythe	Executive Officer	Hope.Smythe@waterboards.ca.gov
California State Water Resources Control Board, Division of Drinking Water	Mr.	Sean	McCarthy	Chief	Sean.McCarthy@waterboards.ca.gov
City of Banning	Mr.	Art	Vela	Public Works Director	avela@ci.banning.ca.us
City of Beaumont	Ms.	Elizabeth	Gibbs	City Manager	egibbs@beaumontcares.com
City of Big Bear Lake	Ms.	Susan	O'Strander	Director of Planning & Inspections	sostrander@citybigbearlake.com
City of Calimesa	Ms.	Bonnie	Johnson	City Manager	bjohnson@cityofcalimesa.net
City of Colton	Mr.	Mike	Cory	Water Utility Manager	mcory@ci.colton.ca.us
City of Colton	Mr.	Mark	Tomich	Development Services Director	mtomich@ci.colton.ca.us
City of Colton		Jessica	Sutorus		jsutorus@ci.colton.ca.us
City of Colton		Robert	DeLoach		rdeLoach@coltonca.gov
City of Corona	Ms.	Joanne	Coletta	Community Development Director	Joanne.Coletta@ci.corona.ca.us
City of Eastvale	Mr.	Gustavo	Gonzalez	Planning Manager	ggonzalez@eastvaleca.gov
City of Fontana	Mr.	Orlando	Hernandez	Planning Manager	ohernandez@fontana.org
City of Grand Terrace	Mr.	Craig	Bradshaw	Public Works Director	cbradshaw@grandterrace-ca.gov
City of Highland	Mr.	Lawrence	Mainez	Community Development Director	lmainez@cityofhighland.org
City of Jurupa Valley	Mr.	Gary	Thompson	City Manager	gthompson@jurupavalley.org
City of Jurupa Valley	Mr.	Thomas	Merrell	Planning Director	tmerrell@jurupavalley.org
City of Lake Elsinore	Mr.	Grant	Taylor	Community Development Director	gtaylor@lake-elsinore.org
City of Loma Linda	Mr.	Russ	Handy		rhandy@lomalinda-ca.gov
City of Loma Linda	Mr.	Konrad	Bolowich	Assistant City Manager	kbolowich@lomalinda-ca.gov
City of Loma Linda	Mr.	T. Jarb	Thaipejr	City Manager	jthaipejr@lomalinda-ca.gov
City of Loma Linda		Gabriel	Orozco		gorozco@lomalinda-ca.gov
City of Loma Linda		Kirk	Mayo		kmayo@lomalinda-ca.gov
City of Loma Linda		Dennis	Bolt		dbolt@lomalinda-ca.gov
City of Murrieta	Mr.	Jarrett	Ramaiya	City Planner	jramaiya@MurrietaCA.gov

Agency	Prefix	First Name	Last Name	Title	E-mail address
City of Norco	Mr.	Steve	King	Planning Director	Skimg@ci.norco.ca.us
City of Redlands	Mr.	John	Harris	Municipal Utilities and Engineering Director	jharris@cityofredlands.org
City of Redlands	Mr.	Brian	Foote	City Planner	bfoote@cityofredlands.org
City of Redlands	Ms.	Cecilia	Griego	Water Resource Specialist	cgriego@cityofredlands.org
City of Redlands		Ross	Wittman		rwittman@cityofredlands.org
City of Redlands		Kevin	Watson		kwatson@cityofredlands.org
City of Redlands		Lauren	Miracle		lmiracle@cityofredlands.org
City of Rialto	Mr.	Tom	Crowley	Utilities Manager	tjcrowley@rialtoca.gov
City of Rialto	Ms.	Karen	Peterson	Acting Community Development Director	kpeterson@rialtoca.gov
City of Rialto		Susanne	Wilcox		swilcox@rialtoca.gov
City of Riverside	Mr.	David	Welch	Community and Economic Development Director	cddInfo@riversideca.gov
City of San Bernardino	Mr.	Oliver	Mujica	Planning Division Manager	Mujica_Ol@sbccity.org
City of San Bernardino	Mr.	Michael	Huntley	Community Development Director	Persico_Ma@sbccity.org
City of Temecula	Mr.	Luke	Watson	Director of Community Development	Luke.Watson@cityoftemecula.org
City of Yucaipa	Mr.	Ray	Casey	City Manager	rcasey@yucaipa.org
County of Riverside	Mr.	Steve	Weiss	Planning Director	sweiss@rctlma.org
County of San Bernardino	Mr.	David	Doublet	Director of Public Works	ddoublet@dpw.sbcounty.gov
County of San Bernardino		Terri	Rahhal	Director, Land Use Services Department	Terri.Rahhal@lus.sbcounty.gov
County of San Bernardino	Mr.	Kevin	Blakeslee	Chief Public Works Engineer	kblakeslee@dpw.sbcounty.gov
Crafton Hills College	Mr.	Kevin	Horan	President	khoran@sbccd.cc.ca.us
East Valley Water District	Mr.	John	Mura	General Manager	jmura@eastvalley.org
East Valley Water District		Jeff	Noelte		jnoelte@eastvalley.org
East Valley Water District		Jason	Wolf		jwolf@eastvalley.org
East Valley Water District		Nathan	Carlson		ncarlson@eastvalley.org
Elsinore Valley Municipal Water District	Mr.	Greg	Thomas	General Manager	gthomas@evmwd.net
Elsinore Valley Municipal Water District		Jesus	Gastelum		jgastelum@evmwd.net
Fontana Water Company	Mr.	Josh	Swift	General Manager	jmswift@fontanawater.com
Fontana Water Company		Cris	Fealy		cifealy@fontanawater.com
Inland Empire Resources Conservation District	Ms.	Mandy	Parkes	District Manager	info@iercd.org
Jurupa Community Services District	Mr.	Chris	Berch	General Manager	cberch@JCS.D.US
Land Engineering (South Mesa Water Company)		Dan	Haskins		dan@lecincorporated.com
Metropolitan Water District of Southern California	Mr.	Edgar	Fandialan	Water Resources Management Group	efandialan@mwdh2o.com

Agency	Prefix	First Name	Last Name	Title	E-mail address
Muscoy Mutual Water Company	Mr.	Rudy	Garcia	Supervisor	rgarcia.mmwc@verizon.net
Muscoy Mutual Water Company	Ms.	Kathy	Halsey	General Manager	kathyhalseymuscoywater@verizon.net
Rialto Water Services, LLC	Mr.	Todd	Brown	General Manager	tbrown@t-rockcap.com
Riverside Highland Water Co.		Jennifer	Gimpel		jjgimpel@rhwco.com
Riverside Highland Water Company	Mr.	Don	Hough	General Manager	dhough@rhwco.com
Riverside Local Agency Formation Commission (LAFCO)	Mr.	Gary	Thompson	Executive Officer	gthompson@lafco.org
Riverside Public Utilities	Mr.	Todd	Corbin	General Manager	tcorbin@riversideca.gov
Riverside Public Utilities	Mr.	Todd	Jorgenson	Assistant General Manager - Water	tjorgenson@riversideca.gov
Riverside Public Utilities		Leo	Ferrando		LFerrando@riversideca.gov
Riverside Public Utilities		Michael	Plinski		MPlinski@riversideca.gov
Riverside Public Utilities		Greg	Herzog		GHerzog@riversideca.gov
Riverside Public Utilities		Farid	Boushaki		FBoushaki@riversideca.gov
Rubidoux Community Services District	Mr.	Jeff	Sims	General Manager	jsims@rcsd.org
San Bernardino County Flood Control District		Michael	Fam		mfam@dpw.sbcounty.gov
San Bernardino County Flood Control District		Alan	Frost		Alan.Frost@dpw.sbcounty.gov
San Bernardino County Local Agency Fomation Commission (LAFCO)	Mr.	Samuel	Martinez	Executive Officer	smartinez@lafco.sbcounty.gov
San Bernardino Municipal Water Department	Mr.	Miguel	Guerrero	General Manager	Miguel.Guerrero@sbmwd.org
San Bernardino Municipal Water Department		Steve	R Miller		Steve.Miller@sbmwd.org
San Bernardino Municipal Water Department		Devin	Arciniega		devin.arciniega@sbmwd.org
San Bernardino Municipal Water Department		Ted	Brunson		Ted.Brunson@sbmwd.org
San Bernardino Municipal Water Department		Francisco	Lopez-Jimenez		francisco.jimenez@sbmwd.org
San Bernardino Municipal Water Department		Jonathon	Schoenen		jonathon.schoenen@sbmwd.org
San Bernardino Municipal Water Department		Warren	Huang		warren.huang@sbmwd.org
San Bernardino Valley Municipal Water District	Mr.	Adekunle	Ojo	Water Resource Manager	AdekunleO@sbvmwd.com
San Bernardino Valley Municipal Water District		Matt	Howard		matth@sbvmwd.com
San Bernardino Valley Municipal Water District		Bob	Tincher		bobt@sbvmwd.com
San Bernardino Valley Water Conservation District	Mr.	Daniel	Cozad	General Manager	DCozad@sbvwcd.org
San Bernardino Valley Water Conservation District		Katelyn	Scholte		KScholte@sbvwcd.org
San Gorgonio Pass Water Agency	Mr.	Lance	Eckhart	General Manager	leckhart@sgpwa.com
San Gorgonio Pass Water Agency		Cheryle	Stiff		cstiff@sgpwa.com
Santa Ana Watershed Project Authority	Mr.	Jeff	Mosher	General Manager	jmosher@sawpa.org
South Mesa Water Company	Mr.	David	Armstrong	General Manager	darmstrong@southmesawater.com
Terrace Water Company	Mr.	Toby	Ritarita	General Manager	tobiterracewater@gmail.com

Agency	Prefix	First Name	Last Name	Title	E-mail address
United States Forest Service		Jody	Noiron	Forest Supervisor, San Bernardino National Forest	jody.noiron@usda.gov
United States Forest Service	Ms	Ellen	Shaw	Forest Supervisor, San Bernardino National Forest	ellen.shaw@usda.gov
West Valley Water District	Mr.	Shamindra	Manbahal	Acting General Manager	smanbahal@wvwd.org
West Valley Water District		Linda	Jadeski		ljadeski@wvwd.org
West Valley Water District		Daniel	Guerra		dguerra@wvwd.org
Western Heights Mutual Water Company	Mr.	Mark	Iverson	General Manager	m.iverson@westernheightswater.org
Western Municipal Water District	Mr.	Ryan	Shaw	Director of Water Resources	rshaw@wmwd.com
WMWD		Jason	Pivovaroff		jpivovaroff@wmwd.com
WMWD		Melissa	Matlock		mmatlock@wmwd.com
Yucaipa Valley Water District	Mr.	Joseph	Zoba	General Manager	jzoba@yvwd.dst.ca.us
Yucaipa Valley Water District		Jennifer	Ares		jares@yvwd.us
Yucaipa Valley Water District		Madeline	Blua		mblua@yvwd.us
Yucaipa Valley Water District		Ashley	Gibson		agibson@yvwd.us
Yucaipa Valley Water District		Mike	Kostelecky		mkostelecky@yvwd.us
Yucaipa-Calimesa Joint Unified School District	Ms.	Cali	Binks	Superintendent	cali_binks@ycjUSD.us
San Manuel Band of Mission Indians		Alexander	Sephton		alexander.sephton@sanmanuel-nsn.gov
San Manuel Band of Mission Indians		Peter	Mateo		peter.mateo@sanmanuel-nsn.gov

Publication Name:
Yucaipa News Mirror

Publication URL:
www.newsmirror.net

Publication City and State:
Yucaipa, CA

Publication County:
San Bernardino

Notice Popular Keyword Category:

Notice Keywords:
urban water management plan

Notice Authentication Number:
202106302323435990649
2924553896

Notice URL:

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Notice Publish Date:
Friday, June 11, 2021

Notice Content

Yucaipa Valley Water District Public Hearing Notice 2020 Integrated Regional Urban Water Management Plan and Water Shortage Contingency Plan Notice is hereby given that on June 22, 2021 Yucaipa Valley Water Districts (YVWD) Board of Directors will conduct a public hearing to receive comments and consider adoption of the 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Water Shortage Contingency Plan (WSCP). Following the public hearing, the YVWD Board of Directors may adopt the 2020 IRUWMP and WSCP with recommended modifications, if any, as a result of public input. The 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents YVWDs plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The WSCP documents YVWDs plan to manage and mitigate an actual water shortage condition, should one occur because of drought or other impact on water supplies. A copy of the Draft 2020 IRUWMP and Draft WSCP is available for public review and can be downloaded at www.yvwd.us or viewed at the District office located at 12770 Second Street, Yucaipa California 92399. Please contact the District if you require special accommodations at (909) 797-5117. Questions and/or written comments on the 2020 IRUWMP can be addressed to Jennifer Ares at jares@yvwd.us prior to the public meeting. Published Yucaipa News Mirror June 4, 11, 2021

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Yucaipa News Mirror



Publication Name:

Yucaipa News Mirror

Publication URL:

www.newsmirror.net (<http://www.newsmirror.net>)

Publication City and State:

Yucaipa, CA

Publication County:

San Bernardino

Notice Popular Keyword Category:

Notice Keywords:

Notice Authentication Number:

202106161632197913138

1664097884

Notice URL:

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Notice Publish Date:

Friday, June 04, 2021

Notice Content

Yucaipa Valley Water District Public Hearing Notice 2020 Integrated Regional Urban Water Management Plan and Water Shortage Contingency Plan Notice is hereby given that on June 22, 2021 Yucaipa Valley Water Districts (YVWD) Board of Directors will conduct a public hearing to receive comments and consider adoption of the 2020 Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (2020 IRUWMP) and Water Shortage Contingency Plan (WSCP). Following the public hearing, the YVWD Board of Directors may adopt the 2020 IRUWMP and WSCP with recommended modifications, if any, as a result of public input. The 2020 IRUWMP provides a comprehensive guide for water resource management for the Upper Santa Ana River Watershed and documents YVWDs plans to ensure adequate water supplies to meet existing and future demands under a range of water supply conditions, including water shortages. The WSCP documents YVWDs plan to manage and mitigate an actual water shortage condition, should one occur because of drought or other impact on water supplies. A copy of the Draft 2020 IRUWMP and Draft WSCP is available for public review and can be downloaded at www.yvwd.us or viewed at the District office located at 12770 Second Street, Yucaipa California 92399. Please contact the District if you require special accommodations at (909) 797-5117. Questions and/or written comments on the 2020 IRUWMP can be addressed to Jennifer Ares at jares@yvwd.us prior to the public meeting. Published Yucaipa News Mirror June 4, 11, 2021

K-3: Resolutions

RESOLUTION NO. 2021-37

A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT ADOPTING THE 2020 UPPER SANTA ANA INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000-acre feet of water annually, prepare an Urban Water Management Plan (Plan), the primary objective of which is to plan for the conservation and efficient use of water; and

WHEREAS, State lawmakers created the Integrated Regional Water Management Planning Act (IRWM Act) in 2002 to encourage integrated, regional strategies for managing water resources; and,

WHEREAS, Section 10621(a) of the California Water Code requires an update of the Urban Water Management Plan and the Integrated Regional Water Management Plan at least once every five years; and

WHEREAS, Yucaipa Valley Water District (District), San Bernardino Valley Municipal Water District and nineteen other water suppliers and water management organizations in the upper Santa Ana River have combined the IRWMP and the RUWMP into a single comprehensive planning document known as the 2020 Upper Santa Ana River Watershed Integrated Regional Urban Water Management Plan (IRUWMP) which is the first of its kind in California; and,

WHEREAS, the Department of Water Resources has approved the process of the combined planning documents into one comprehensive regional document; and,

WHEREAS, as a participant in the 2020 IRUWMP, the District has prepared those portions of the IRUWMP applicable to the District to meet the requirements of the IRWM Act, the UWMP Act and other applicable laws and regulations which include: Part 1, Part 2, Part 3, Chapter 11: Agency UWMP, and Part 4 Appendix K: Agency Supporting Information; and,

WHEREAS, in accordance with applicable law, a Notice of a Public Hearing regarding Yucaipa Valley Water District's adoption of Part 1, Part 2 Chapter 11, Part 3, and Part 4 Appendix K of the 2020 IRUWMP was published within the jurisdiction of the District on June 4, 2021, and June 11, 2021; and,

WHEREAS, Yucaipa Valley Water District is an urban water supplier for purposes of the Act and a properly noticed public hearing on said draft plan was held by the District on June 22, 2021 in order to provide members of the public and other interested entities with the opportunity to be heard in connection with the proposed adoption of Part 1 – Regional Context, Part 2, Section 11 – Yucaipa Valley Water District's Urban Water Management Plan and Part 3 – Regional Supporting Information and Part 4, Appendix K.

NOW, THEREFORE, BE IT HEREBY RESOLVED AND ORDERED, that the Board of Directors of the Yucaipa Valley Water District, as follows:

SECTION 1. Part 1, Part 2 Chapter 11, Part 3, and Part 4 Appendix K of the 2020 IRUWMP is hereby adopted as amended by changes incorporated by the District's Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the District's Board of Directors;

SECTION 2. The General Manager is hereby authorized and directed to include a copy of this Resolution in the District's 2020 IRUWMP;

SECTION 3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the District's portions of the 2020 IRUWMP to DWR no later than July 1, 2021;

SECTION 4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the 2020 IRUWMP to the California State Library, and any city or county within which the District provides water supplies no later than thirty (30) days after this adoption date;

SECTION 5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the 2020 IRUWMP available for public review at the District offices during normal business hours and on the District's website no later than thirty (30) days after filing a copy of the 2020 IRUWMP with DWR;

SECTION 6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the 2020 IRUWMP prepared pursuant to Water Code Section 10635(a) to any city or county within which the District provides water supplies no later than sixty (60) days after submitting a copy to DWR;

SECTION 7. The General Manager is hereby authorized and directed to implement the 2020 Plan in accordance with the IRWM Act and UWMP Act and to provide recommendations to the District's Board of Directors regarding the necessary budgets, procedures, rules, regulations, or further actions to carry out the effective and equitable implementation of the 2020 IRUWMP in collaboration with the regional partners.

PASSED AND ADOPTED this 22nd day of June 2021.

YUCAIPA VALLEY WATER DISTRICT


Chris Mann, President Board of Directors

ATTEST:


Joseph B. Zoba, General Manager

K-4: Agreements

Not Used. Yucaipa Valley Water District does not have any relevant Agreements referenced in their UWMP.

See Part 3 Appendix B for Regional agreements that apply to the Yucaipa Valley Water District

K-5: DWR Population Tool Output

Not Used. Yucaipa Valley Water District did not use the DWR Population Tool.

K-6: DWR Tables

Submittal Table 2-1 Retail Only: Public Water Systems

Public Water System Number	Public Water System Name	Number of Municipal Connections 2020	Volume of Water Supplied 2020 *
<i>Add additional rows as needed</i>			
CA3610055	Yucaipa Valley Water District	13,582	11,345
TOTAL		13,582	11,345

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

NOTES:

Submittal Table 2-2: Plan Identification

Select Only One	Type of Plan		Name of RUWMP or Regional Alliance <i>if applicable</i> (select from drop down list)
<input type="checkbox"/>	Individual UWMP		
	<input type="checkbox"/>	Water Supplier is also a member of a RUWMP	
	<input type="checkbox"/>	Water Supplier is also a member of a Regional Alliance	
<input checked="" type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)		San Bernardino Valley Municipal Water District

NOTES:

Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input type="checkbox"/>	Supplier is a wholesaler
<input checked="" type="checkbox"/>	Supplier is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years
<input type="checkbox"/>	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP * (select from drop down)	
Unit	AF
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.	
NOTES: Wholesale to Western Heights Mutual Water Company.	

Submittal Table 2-4 Retail: Water Supplier Information Exchange

The retail Supplier has informed the following wholesale supplier(s) of projected water use in accordance with Water Code Section 10631.

Wholesale Water Supplier Name

Add additional rows as needed

San Bernardino Valley Municipal Water District

San Gorgonio Pass Water Agency

NOTES:

Submittal Table 3-1 Retail: Population - Current and Projected

Population Served	2020	2025	2030	2035	2040	2045(<i>opt</i>)
	51,558	53,779	56,429	59,079	61,729	64,379

NOTES:

Submittal Table 4-1 Retail: Demands for Potable and Non-Potable Water - Actual

Use Type	2020 Actual		
<p>Drop down list May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool</p>	Additional Description (as needed)	Level of Treatment When Delivered Drop down list	Volume*
Add additional rows as needed			
Sales/Transfers/Exchanges to other Suppliers	Western Heights	Drinking Water	460
Multi-Family		Drinking Water	1,141
Single Family		Drinking Water	8,483
Commercial		Drinking Water	285
Landscape		Drinking Water	291
Industrial		Drinking Water	36
Institutional/Governmental		Drinking Water	332
Other	Fire Service	Drinking Water	1
Other	Construction Water	Drinking Water	34
Losses	All non-revenue water	Drinking Water	281
TOTAL			11,345

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

NOTES:

Submittal Table 4-2 Retail: Use for Potable and Non-Potable Water - Projected

Use Type	Additional Description (as needed)	Projected Water Use* <i>Report To the Extent that Records are Available</i>				
<u>Drop down list</u> May select each use multiple times These are the only Use Types that will be recognized by the WUEdata online submittal tool		2025	2030	2035	2040	2045 (opt)
Add additional rows as needed						
Single Family		8,018	7,537	7,085	6,660	6,260
Multi-Family		1,068	1,004	944	887	834
Commercial		264	248	233	219	206
Other	Construction Water	32	30	28	27	25
Industrial		34	32	30	28	26
Institutional/Governmental		297	279	262	246	232
Landscape		274	258	242	228	214
Sales/Transfers/Exchanges to other Suppliers	Western Heights	2,000	2,000	2,000	2,000	2,000
Losses	non-revenue water	671	638	606	577	549
TOTAL		12,658	12,026	11,430	10,872	10,346
*Acre Feet						
NOTES:						

Submittal Table 4-3 Retail: Total Water Use (Potable and Non-Potable)

	2020	2025	2030	2035	2040	2045 (opt)
Potable Water, Raw, Other Non-potable <i>From Tables 4-1R and 4-2 R</i>	11,345	12,658	12,026	11,430	10,872	10,346
Recycled Water Demand ¹ <i>From Table 6-4</i>	1,374	3,630	3,800	4,000	4,200	4,400
Optional Deduction of Recycled Water Put Into Long- Term Storage ²						
TOTAL WATER USE	12,718	16,288	15,826	15,430	15,072	14,746

¹ Recycled water demand fields will be blank until Table 6-4 is complete ²
 Long term storage means water placed into groundwater or surface storage that is not removed from storage in the same year. Supplier **may** deduct recycled water placed in long-term storage from their reported demand. This value is manually entered into Table 4-3.

NOTES:

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss ^{1,2}
01/2015	580
01/2016	916
01/2017	316.77
01/2018	1532.595
01/2019	507.501

¹ Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet. ²
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.

NOTES:

Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections

<p>Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i></p>	<p>Yes</p>
<p>If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found.</p>	
<p>Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i></p>	<p>Yes</p>

NOTES:

Submittal Table 5-1 Baselines and Targets Summary
From SB X7-7 Verification Form
Retail Supplier or Regional Alliance Only

Baseline Period	Start Year *	End Year *	Average Baseline GPCD*	Confirmed 2020 Target*
10-15 year	2000	2009	286	229
5 Year	2005	2009	279	

**All cells in this table should be populated manually from the supplier's SBX7-7 Verification Form and reported in Gallons per Capita per Day (GPCD)*

NOTES:

Submittal Table 5-2: 2020 Compliance
SB X7-7 2020 Compliance Form
Retail Supplier or Regional Alliance Only

From

2020 GPCD			2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* <i>(Adjusted if applicable)</i>		
188	2	186	229	Y

**All cells in this table should be populated manually from the supplier's SBX7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)*

NOTES: Adjustments due to El Dorado fire.

Submittal Table 6-1 Retail: Groundwater Volume Pumped						
<input type="checkbox"/>	Supplier does not pump groundwater. The supplier will not complete the table below.					
<input type="checkbox"/>	All or part of the groundwater described below is desalinated.					
Groundwater Type <i>Drop Down List</i> May use each category multiple times	Location or Basin Name	2016*	2017*	2018*	2019*	2020*
<i>Add additional rows as needed</i>						
Alluvial Basin	Yucaipa Basin; 8-002.07	4428.66	3303.83	4949.14	4173.12	5575.22
Alluvial Basin	Beaumont Adjudicated Basin	4.58	0.12	191.2	528.63	1407.72
Alluvial Basin	Yupper Santa Ana Valley; 8-002.06; Bunker Hill, San Bernardino Basin	161.62	109.76	177.7	91.56	133.16
Alluvial Basin	San Timoteo Basin; 8-002.08	0	0	0	0	0
	TOTAL	4,595	3,414	5,318	4,793	7,116
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.						
NOTES: Pisgah Peak wells and others just outside Yucaipa Basin are counted in the Yucaipa Basin area.						

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020						
<input type="checkbox"/>		There is no wastewater collection system. The supplier will not complete the table below.				
		Percentage of 2015 service area covered by wastewater collection system <i>(optional)</i>				
		Percentage of 2015 service area population covered by wastewater collection system <i>(optional)</i>				
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected from UWMP Service Area 2020 *	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i> <i>Drop Down List</i>
Yucaipa Valley Water District	Metered	4,237	Yucaipa Valley Water District	WRWRF	Yes	No
Total Wastewater Collected from Service Area in 2020:		4,237				
* Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3 .						
NOTES:						

Submittal Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2020

No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table below.

Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number (optional) 2	Method of Disposal <i>Drop down list</i>	Does This Plant Treat Wastewater Generated Outside the Service Area? <i>Drop down list</i>	Treatment Level <i>Drop down list</i>	2020 volumes ¹				
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area ₃	Recycled Outside of Service Area	Instream Flow Permit Requirement
Wochholz Regional Water	San Timoteo Creek	Creek; Upper tributary to	CA 0105619	River or creek outfall	No	Tertiary	4,237	1,677	1,280		1,792
Total							4,237	1,677	1,280	0	1,792

NOTES:

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area

Recycled water is not used and is not planned for use within the service area of the supplier.
The supplier will not complete the table below.

Name of Supplier Producing (Treating) the Recycled Water:	Yucaipa Valley Water District
Name of Supplier Operating the Recycled Water Distribution System:	Yucaipa Valley Water District
Supplemental Water Added in 2020 (volume) <i>Include units</i>	953.9 AF
Source of 2020 Supplemental Water	Filtered MF Backwash from the Yucaipa Valley Regional Water Filtration Facility.

Beneficial Use Type <i>additional rows if needed.</i>	<i>Insert</i> Potential Beneficial Uses of Recycled Water (Describe)	Amount of Potential Uses of Recycled Water (Quantity) <i>Include volume units¹</i>	General Description of 2020 Uses	Level of Treatment <i>Drop down list</i>	2020 ¹	2025 ¹	2030 ¹	2035 ¹	2040 ¹	2045 ¹ (opt)
Agricultural irrigation				Tertiary	22	25	25	25	25	25
Landscape irrigation (exc golf courses)			meridians and parks	Tertiary	1,026	1,250	1,500	2,000	2,300	2,600
Golf course irrigation				Tertiary	300	300	300	300	300	300
Commercial use				Tertiary	14	20	25	30	35	40
Industrial use										
Geothermal and other energy production										
Seawater intrusion barrier										
Recreational impoundment						10	10	10	10	10
Wetlands or wildlife habitat										
Groundwater recharge (IPR)	Beaumont Adjudicated Basin Recharge					2,025	1,940	1,635	1,530	1,425
Reservoir water augmentation (IPR)										
Direct potable reuse										
Other (Description Required)			construction water	Tertiary	12					
Total:					1,374	3,630	3,800	4,000	4,200	4,400
2020 Internal Reuse					789					

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

NOTES:

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual



Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table below. If recycled water was not used in 2020, and was not predicted to be in 2015, then check the box and do not complete the table.

Beneficial Use Type	2015 Projection for 2020 ¹	2020 Actual Use ¹
<i>Insert additional rows as needed.</i>		
Agricultural irrigation		22
Landscape irrigation (exc golf courses)	1,651	1,026
Golf course irrigation		300
Commercial use		14
Industrial use		
Geothermal and other energy production		
Seawater intrusion barrier		
Recreational impoundment		
Wetlands or wildlife habitat		
Groundwater recharge (IPR)	2,828	
Reservoir water augmentation (IPR)		
Direct potable reuse		
Other (Description Required)	Construction water	12
Total	4,479	1,374

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

NOTE: IPR is an ongoing effort.

Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use			
☐	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use *
<i>Add additional rows as needed</i>			
Dual-plumbing of new homes	YVWD resolution requiring front and backyard irrigation with recycled water adopted in 2008	2020	2,000
Recycled ASR	Injection/recharge	2022	2,500
Total			4,500
*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.			
NOTES:			

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.

Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.

Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other suppliers?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List</i>	Expected Increase in Water Supply to Supplier* <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Supplier Name</i>				

Add additional rows as needed

Calimesa ASR	No			2022	All Year Types	2500-3500
Bunker Hill CUP	Yes	SBVMWD		2023	All Year Types	10000-20000

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

NOTES:

Submittal Table 6-8 Retail: Water Supplies — Actual

Water Supply	Additional Detail on Water Supply	2020		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool		Actual Volume*	Water Quality Drop Down List	Total Right or Safe Yield* (optional)
Add additional rows as needed				
Purchased or Imported Water	Yucaipa Valley Regional Water Filtration Facility	4,057	Drinking Water	
Groundwater (not desalinated)	Groundwater Supplies	7,116	Drinking Water	
Surface water (not desalinated)	Oak Glen Filtration Facility	171	Drinking Water	
Recycled Water	Regional Water Recycling Facility	1,281	Recycled Water	
Other	Backwash at YVRWFF	954	Other Non-Potable Water	
Total		13,579		0
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>				

Submittal Table 6-9 Retail: Water Supplies — Projected											
Water Supply	Additional Detail on Water Supply	Projected Water Supply * Report To the Extent Practicable									
		2025		2030		2035		2040		2045 (opt)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
Add additional rows as needed											
Groundwater (not desalinated)	Beaumont Adjudicated Basin	15,000		15,000		15,000		15,000		15,000	
Groundwater (not desalinated)	San Timoteo Basin; 8-002.08	250		250		250		250		250	
Groundwater (not desalinated)	Yupper Santa Ana Valley; 8-002.06; Bunker Hill, San Bernardino Basin	750		750		750		750		750	
Groundwater (not desalinated)	Yucaipa Basin; 8-002.07	29,000		34,000		39,000		44,000		49,000	
Surface water (not desalinated)	Oak Creek/Birch Creek/Well 25 (Groundwater under the influence of surface water)	250		250		250		250		250	
Purchased or Imported Water	SGPWA	450		450		500		500		600	
Purchased or Imported Water	SBVMWD to YVRWFF	6,750		7,500		9,000		9,750		10,500	
Purchased or Imported Water	SBVMWD to Yucaipa Basin groundwater recharge	2,250		2,500		3,000		3,250		3,500	
Recycled Water	WRWRF	4,480		4,700		4,950		5,200		5,450	
Other											
Total		59,180	0	65,400	0	72,700	0	78,950	0	85,300	0
*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.											
Groundwater supplies for YvWD reflect volume available since YVWD has recharged additional state water project supplies totaling approximately 28,783 AF.											

Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2019-2020, use 2020	Available Supplies if Year Type Repeats	
		<input checked="" type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____
		<input type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available *	% of Average Supply
Average Year	2020	57013	100%
Single-Dry Year	2013	53500	94%
Consecutive Dry Years 1st Year	2013	50000	88%
Consecutive Dry Years 2nd Year	2013	46500	82%
Consecutive Dry Years 3rd Year	2013	43000	75%
Consecutive Dry Years 4th Year	2013	39500	69%
Consecutive Dry Years 5th Year	2013	36000	63%

Supplier may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table.

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

NOTES:

Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison

	2025	2030	2035	2040	2045 (<i>Opt</i>)
Supply totals (<i>autofill from Table 6-9</i>)	59,180	65,400	72,700	78,950	85,300
Demand totals (<i>autofill from Table 4-3</i>)	16,288	15,826	15,430	15,072	14,746
Difference	42,892	49,574	57,270	63,879	70,554

NOTES:

Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2025	2030	2035	2040	2045 (Opt)
Supply totals*	59,180	65,400	72,700	78,900	85,300
Demand totals*	12,658	12026	11,430	10,872	10,346
Difference	46,522	53,374	61,270	68,028	74,954
<i>*Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Table 2-3.</i>					
NOTES:					

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison

		2025*	2030*	2035*	2040*	2045* (Opt)
First year	Supply totals	59,180	65,400	72,700	78,950	85,300
	Demand totals	12,658	12,026	11,430	10,872	10,346
	Difference	46,522	53,374	61,270	68,078	74,954
Second year	Supply totals	55,261	61,000	67,000	68,000	69,000
	Demand totals	11,696	11,256	10,744	10,470	9,994
	Difference	43,565	49,744	56,256	57,530	59,006
Third year	Supply totals	55,888	58,000	64,000	65,000	66,000
	Demand totals	10,807	10,536	10,100	10,082	9,654
	Difference	45,081	47,464	53,900	54,918	56,346
Fourth year	Supply totals	56,861	55,000	61,000	62,000	63,000
	Demand totals	9,986	9,862	9,494	9,709	9,326
	Difference	46,875	45,138	51,506	52,291	53,674
Fifth year	Supply totals	55,104	52,000	58,000	59,000	60,000
	Demand totals	9,227	9,230	8,924	9,350	9,009
	Difference	45,877	42,770	49,076	49,650	50,991
Sixth year (optional)	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0

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

NOTES:

Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b)

2021	Total
Total Water Use	11,673
Total Supplies	57,555
Surplus/Shortfall w/o WSCP Action	45,882
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	45,882
Resulting % Use Reduction from WSCP action	0%

2022	Total
Total Water Use	12,000
Total Supplies	58,100
Surplus/Shortfall w/o WSCP Action	46,100
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	46,100
Resulting % Use Reduction from WSCP action	0%

2023	Total
Total Water Use	12,330
Total Supplies	58,625
Surplus/Shortfall w/o WSCP Action	46,295
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	46,295
Resulting % Use Reduction from WSCP action	0%

2024	Total
Total Water Use	12,450
Total Supplies	58,970
Surplus/Shortfall w/o WSCP Action	46,520
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	46,520
Resulting % Use Reduction from WSCP action	0%

2025	Total
Total Water Use	12,550
Total Supplies	59,180
Surplus/Shortfall w/o WSCP Action	46,630
Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit	
WSCP - use reduction savings benefit	
Revised Surplus/(shortfall)	46,630
Resulting % Use Reduction from WSCP action	0%

Submittal Table 8-1
Water Shortage Contingency Plan Levels

Shortage Level	Percent Shortage Range	Shortage Response Actions <i>(Narrative description)</i>
1	Up to 10%	Normal Conditions; no conservation triggers or water savings objectives are initiated at this level.
2	Up to 20%	Public is notified of shortage. Customers are reminded to conserve water. Asses main flushing and reservoir cleaning activities.
3	Up to 30%	Continued voluntary cooperation. Consult with customer groups, initiate major public media campaign, identify next steps, regulate construction meter activity, contact largest customers, and prepare for level 4.
4	Up to 40%	Prohibit watering during the day, limit watering to certain days, prohibit ornamental fountains, prohibit car washing etc.
5	Up to 50%	Implement rate surcharge, continue water patrols, curtail fire flow and pipeline testing, turf irrigation prohibited, rescind construction meters
6	>50%	Monthly community meetings and enforce fines and penalties.

NOTES:

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
<i>Add additional rows as needed</i>				
1	Expand Public Information Campaign	10%		No
2	Provide Rebates on Plumbing Fixtures and Devices	10%		No
3	Decrease Line Flushing	10%		No
3	Expand Public Information Campaign	n/a		No
3	Landscape - Restrict or prohibit runoff from landscape irrigation	10%		No
4	Increase Water Waste Patrols	20%		Yes
5	Improve Customer Billing	20%		Yes
6	Moratorium or Net Zero Demand Increase on New Connections	20%		Yes

NOTES:

Submittal Table 8-3: Supply Augmentation and Other Actions

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>
<i>Add additional rows as needed</i>			
3	Other Purchases	11500 AF	Three party agreement
2	New Recycled Water	2500 AF	Aquifer storage and recovery
4,5,6	Stored Emergency Supply	28783 AF	Yucaipa Basin

NOTES:

Submittal Table 10-1 Retail: Notification to Cities and Counties

City Name	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Banning	Yes	Yes
Beaumont	Yes	Yes
Calimesa	Yes	Yes
Colton	Yes	Yes
Fontana	Yes	Yes
Grand Terrace	Yes	Yes
Highland	Yes	Yes
Loma Linda	Yes	Yes
Redlands	Yes	Yes
Rialto	Yes	Yes
Riverside	Yes	Yes
San Bernardino	Yes	Yes
Yucaipa	Yes	Yes
County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Riverside County	Yes	Yes
San Bernardino County	Yes	Yes
NOTES:		

K-7: SBX7-7 Forms

SB X7-7 Table 0: Units of Measure Used in 2020 UWMP*

(select one from the drop down list)

Acre Feet

**The unit of measure must be consistent throughout the UWMP, as reported in Submittal Table 2-3.*

NOTES:

SB X7-7 Table 2: Method for 2020 Population Estimate

Method Used to Determine 2020 Population
(may check more than one)

<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES:	

SB X7-7 Table 3: 2020 Service Area Population

2020 Compliance Year Population

2020	51,558
-------------	--------

NOTES:

SB X7-7 Table 4: 2020 Gross Water Use

Compliance Year 2020	2020 Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	2020 Deductions					2020 Gross Water Use
		Exported Water *	Change in Dist. System Storage* (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use*	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	
	11,345	460		-		-	10,885

* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES:

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source		Purchased from SGPWA and SBVMWD	
This water source is (check one) :			
<input type="checkbox"/>	The supplier's own water source		
<input checked="" type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² Optional (+/-)	Corrected Volume Entering Distribution System
	4,057	-	4,057
¹ <i>Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.</i>			
² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s) Meter Error Adjustment

Complete one table for each source.

Name of Source		Groundwater	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² Optional (+/-)	Corrected Volume Entering Distribution System
	7,116		7,116
¹ <i>Units of measure (AF, MG, or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.</i>			
² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES:			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source		Surface Water	
-----------------------	--	---------------	--

This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	171		171
¹ Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.			
² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES:			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment			
Complete one table for each source.			
Name of Source	Enter Name of Source 4		
This water source is (check one) :			
<input type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
			0
¹ Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.			
² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES:			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment			
Complete one table for each source.			
Name of Source	Enter Name of Source 5		
This water source is (check one) :			
<input type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		

SB X7-7 Table 5: 2020 Gallons Per Capita Per Day (GPCD)

2020 Gross Water <i>Fm SB X7-7 Table 4</i>	2020 Population <i>Fm</i> <i>SB X7-7 Table 3</i>	2020 GPCD
10,885	51,558	188

NOTES:

SB X7-7 Table 9: 2020 Compliance

Actual 2020 GPCD ¹	Optional Adjustments to 2020 GPCD				2020 Confirmed Target GPCD ^{1,2}	Did Supplier Achieve Targeted Reduction for 2020?	
	Enter "0" if Adjustment Not Used			TOTAL Adjustments ¹			Adjusted 2020 GPCD ¹ <i>(Adjusted if applicable)</i>
	Extraordinary Events ¹	Weather Normalization ¹	Economic Adjustment ¹				
188	2	-	-	2	186	229	YES

¹ All values are reported in GPCD

² **2020 Confirmed Target GPCD** is taken from the Supplier's SB X7-7 Verification Form Table SB X7-7, 7-F.

NOTES: Fire suppression for El Dorado fire.

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	14,064	Acre Feet
	2008 total volume of delivered recycled water	1,197	Acre Feet
	2008 recycled water as a percent of total deliveries	9%	See Note 1
	Number of years in baseline period ^{1,2}	10	Years
	Year beginning baseline period range	2000	
5-year baseline period	Year ending baseline period range ³	2009	
	Number of years in baseline period	5	Years
	Year beginning baseline period range	2005	
	Year ending baseline period range ⁴	2009	

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)	
<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES:	

SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	2000	32,282
Year 2	2001	33,249
Year 3	2002	33,708
Year 4	2003	34,725
Year 5	2004	36,498
Year 6	2005	37,306
Year 7	2006	38,586
Year 8	2007	39,803
Year 9	2008	40,588
Year 10	2009	40,988
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2005	37,306
Year 2	2006	37,978
Year 3	2007	39,803
Year 4	2008	40,588
Year 5	2009	40,988

NOTES:

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

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Acre Feet
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	Annual Gross Water Use
10 to 15 Year Baseline - Gross Water Use							
Year 1	2000	10,310	-	-	-	-	10,310
Year 2	2001	10,415	-	-	-	-	10,415
Year 3	2002	11,746	-	-	-	-	11,746
Year 4	2003	10,981	-	-	-	-	10,981
Year 5	2004	12,843	-	-	-	-	12,843
Year 6	2005	11,404	-	-	-	-	11,404
Year 7	2006	12,466	-	-	-	-	12,466
Year 8	2007	13,187	-	-	-	-	13,187
Year 9	2008	12,930	533	-	-	-	12,397
Year 10	2009	12,871	830	-	-	-	12,041
Year 11	0	-	-	-	-	-	-
Year 12	0	-	-	-	-	-	-
Year 13	0	-	-	-	-	-	-
Year 14	0	-	-	-	-	-	-
Year 15	0	-	-	-	-	-	-
10 - 15 year baseline average gross water use							11,779
5 Year Baseline - Gross Water Use							
Year 1	2005	11,404	-	-	-	-	11,404
Year 2	2006	12,466	-	-	-	-	12,466
Year 3	2007	13,187	-	-	-	-	13,187
Year 4	2008	12,930	533	-	-	-	12,397
Year 5	2009	12,871	830	-	-	-	12,041
5 year baseline average gross water use							12,299
* 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 <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
--	--	--	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	2000	10,310	10,310
Year 2	2001	10,415	10,415
Year 3	2002	11,746	11,746
Year 4	2003	10,981	10,981
Year 5	2004	12,843	12,843
Year 6	2005	10,976	10,976
Year 7	2006	11,350	11,350
Year 8	2007	10,621	10,621
Year 9	2008	7,215	7,215
Year 10	2009	6,700	6,700
Year 11	0		-
Year 12	0		-
Year 13	0		-
Year 14	0		-
Year 15	0		-

5 Year Baseline - Water into Distribution System

Year 1	2005	10,976	10,976
Year 2	2006	11,350	11,350
Year 3	2007	10,621	10,621
Year 4	2008	7,215	7,215
Year 5	2009	6,700	6,700

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 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Purchased from SGPWA and SBVMWD

This water source is:

<input type="checkbox"/>	The supplier's own water source			
<input checked="" type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	2000	0		0
Year 2	2001	0		0
Year 3	2002	0		0
Year 4	2003	0		0
Year 5	2004	0		0
Year 6	2005	428		428
Year 7	2006	1116		1,116
Year 8	2007	2566		2,566
Year 9	2008	5715		5,715
Year 10	2009	6171		6,171
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2005	428		428
Year 2	2006	1116		1,116
Year 3	2007	2566		2,566
Year 4	2008	5715		5,715
Year 5	2009	6171		6,171
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 4-A: Volume Entering the Distribution System(s)	
Complete one table for each source.	
Name of Source	Enter Name of Source 3
This water source is:	
<input type="checkbox"/>	The supplier's own water source
<input type="checkbox"/>	A purchased or imported source

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

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	2000	32,282	10,310	285
Year 2	2001	33,249	10,415	280
Year 3	2002	33,708	11,746	311
Year 4	2003	34,725	10,981	282
Year 5	2004	36,498	12,843	314
Year 6	2005	37,306	11,404	273
Year 7	2006	38,586	12,466	288
Year 8	2007	39,803	13,187	296
Year 9	2008	40,588	12,397	273
Year 10	2009	40,988	12,041	262
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	
10-15 Year Average Baseline GPCD				286
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2005	37,306	11,404	273
Year 2	2006	37,978	12,466	293
Year 3	2007	39,803	13,187	296
Year 4	2008	40,588	12,397	273
Year 5	2009	40,988	12,041	262
5 Year Average Baseline GPCD				279
NOTES:				

SB X7-7 Table 6: Baseline GPCD *Summary*
From Table SB X7-7 Table 5

10-15 Year Baseline GPCD	286
5 Year Baseline GPCD	279

NOTES:

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

Target Method		Supporting Tables
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator <i>Located in the WUE Data Portal at wuedata.water.ca.gov Resources button</i>

NOTES:

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

20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
286	229
NOTES:	

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

5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target 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	
279	265	229			229

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 ⁴

Confirmed Target is the lesser of the Calculated 2020 Target (C5, D5, or E5) or the Maximum 2020 Target (Cell B5)

NOTES:

K-8: AWWA Water Audits



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: Yucaipa Valley Water District
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

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

To select the correct data grading for each input, determine the highest grade where

WATER SUPPLIED

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

Volume from own sources:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="10,603.440"/>	acre-ft/yr
Water imported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="551.690"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr
<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value=""/>	<input type="text" value=""/>	acre-ft/yr

WATER SUPPLIED: acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="7"/>	<input type="text" value="9,088.387"/>	acre-ft/yr
Billed unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="22.235"/>	acre-ft/yr
Unbilled unmetered:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="25.129"/>	acre-ft/yr

AUTHORIZED CONSUMPTION: acre-ft/yr

Click here: for help using option

Pcnt:

Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

Pcnt:

Value:

WATER LOSSES (Water Supplied - Authorized Consumption)

acre-ft/yr

Apparent Losses

Unauthorized consumption: acre-ft/yr

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

Customer metering inaccuracies:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="3"/>	<input type="text" value="185.931"/>	acre-ft/yr
Systematic data handling errors:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="22.721"/>	acre-ft/yr

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

Apparent Losses: acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

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

WATER LOSSES: acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="203.0"/>	miles
Number of <u>active AND inactive</u> service connections:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="9"/>	<input type="text" value="12,713"/>	
Service connection density:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value=""/>	<input type="text" value="63"/>	conn./mile main

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

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

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

Average operating pressure: psi

COST DATA

Total annual cost of operating water system:	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="10"/>	<input type="text" value="\$1,051,102"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="\$2.50"/>	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	<input type="button" value="+"/>	<input type="button" value="?"/>	<input type="text" value="5"/>	<input type="text" value="\$104.57"/>	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 59 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

American Water Works Association.

?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Yucaipa Valley Water District**
 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

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

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

WATER SUPPLIED

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

Volume from own sources:	+ ?	5	11,876.688	acre-ft/yr
Water imported:	+ ?		0.000	acre-ft/yr
Water exported:	+ ?	5	608.476	acre-ft/yr

Master Meter and Supply Error Adjustments

+ ?	3	Pcnt:	Value:	
+ ?		Pcnt:	Value:	
+ ?	5	Pcnt:	Value:	

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

WATER SUPPLIED: **11,268.212** acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	9	10,922.630	acre-ft/yr
Billed unmetered:	+ ?	n/a	0.000	acre-ft/yr
Unbilled metered:	+ ?	10	0.641	acre-ft/yr
Unbilled unmetered:	+ ?	5	28.171	acre-ft/yr

AUTHORIZED CONSUMPTION: **10,951.442** acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt: 0.25% Value: 28.171 acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

Pcnt: 0.25% Value: acre-ft/yr

2.00% acre-ft/yr

0.25% acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption) **316.770** acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **28.171** acre-ft/yr

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

Customer metering inaccuracies: + ? **222.924** acre-ft/yr

Systematic data handling errors: + ? **27.307** acre-ft/yr

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

Apparent Losses: **278.401** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **38.369** acre-ft/yr

WATER LOSSES: **316.770** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: **345.582** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: + ? **10** 203.0 miles

Number of active AND inactive service connections: + ? **9** 12,983

Service connection density: ? **64** conn./mile main

Are customer meters typically located at the curbstop or property line? Yes (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line: + ?

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** 50.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	10	\$3,608,902	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	5	\$2.52	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	+ ?	5	\$263.16	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Customer retail unit cost (applied to Apparent Losses)

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: **Yucaipa Valley Water District**
 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

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

To select the correct data grading for each input, determine the highest grade

WATER SUPPLIED

Volume from own sources:	+	?	5	11,476.500	acre-ft/yr
Water imported:	+	?		0.000	acre-ft/yr
Water exported:	+	?	3	282.630	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
+	?	3
+	?	
+	?	3

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

WATER SUPPLIED: 11,193.870 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	5	9,633.290	acre-ft/yr
Billed unmetered:	+	?	n/a		acre-ft/yr
Unbilled metered:	+	?	n/a		acre-ft/yr
Unbilled unmetered:	+	?	5	27.985	acre-ft/yr

Click here: ? for help using option buttons below

Pcnt:	Value:	acre-ft/yr
		27.985

Use buttons to select percentage of water supplied OR value

AUTHORIZED CONSUMPTION: 9,661.275 acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

1,532.595 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? 27.985 acre-ft/yr

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

Customer metering inaccuracies:	+	?	3	196.598	acre-ft/yr
Systematic data handling errors:	+	?		24.083	acre-ft/yr

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

Apparent Losses: 248.666 acre-ft/yr

Pcnt:	Value:	acre-ft/yr
0.25%		
2.00%		
0.25%		

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **1,283.930** acre-ft/yr

WATER LOSSES: 1,532.595 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 1,560.580 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	10	221.0	miles
Number of active AND inactive service connections:	+	?	9	12,983	
Service connection density:	?			59	conn./mile main

Are customer meters typically located at the curbside or property line? Yes (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 50.0 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$16,425,415	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	5	\$1.77	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	+	?	5	\$240.36	\$/acre-ft

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

Water Audit Report for: **Yucaipa Valley Water District**
 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.

WATER SUPPLIED

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

Volume from own sources:	+	?	5	9,773.790	acre-ft/yr
Water imported:	+	?	n/a		acre-ft/yr
Water exported:	+	?	3	306.240	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	+	?	9	0.235	acre-ft/yr
Value:					acre-ft/yr
Pcnt:	+	?	3		acre-ft/yr

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

WATER SUPPLIED: 9,467.315 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+	?	7	8,940.908	acre-ft/yr
Billed unmetered:	+	?	n/a		acre-ft/yr
Unbilled metered:	+	?	n/a		acre-ft/yr
Unbilled unmetered:	+	?	5	23.668	acre-ft/yr

AUTHORIZED CONSUMPTION: 8,964.576 acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

502.739 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? 5 23.668 acre-ft/yr
 Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	3	136.156	acre-ft/yr
Systematic data handling errors:	+	?	?	22.352	acre-ft/yr

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

Apparent Losses: 182.177 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 320.562 acre-ft/yr

WATER LOSSES: 502.739 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 526.407 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	10	237.3	miles
Number of active AND inactive service connections:	+	?	9	13,153	
Service connection density:	?			55	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 89.0 psi

COST DATA

Total annual cost of operating water system:	+	?	10	\$15,586,839	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	9	\$1.74	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	+	?	5	\$258.08	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

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: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)

K-9: Water Shortage Contingency Plan

Yucaipa Valley Water District Water Shortage Contingency Plan

JUNE 2021

Yucaipa Valley Water District



Yucaipa Valley Water District

YUCAIPA VALLEY WATER DISTRICT



Water Shortage Contingency Plan

Yucaipa Valley Water
District

JUNE 2021

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WATER SHORTAGE CONTINGENCY PLAN

Yucaipa Valley Water District

This Water Shortage Contingency Plan is a strategic plan for Yucaipa Valley Water District to use in preparation and response to water shortages.

The Water Shortage Contingency Plan (WSCP) is a strategic plan Yucaipa Valley Water District uses to prepare for and respond to foreseeable and unforeseeable water shortages. A water shortage occurs when water supply available is insufficient to meet the normally expected customer water use at a given point in time. A shortage may occur due to several reasons, such as water supply quality changes, climate change, drought, regional power outage, and catastrophic events (e.g., earthquake). Additionally, the State may declare a statewide drought emergency and mandate that water suppliers reduce demands, as occurred in 2014. The WSCP serves as the operating manual that YVWD will use to prevent catastrophic service disruptions through proactive, rather than reactive, mitigation of water shortages. This WSCP provides a process for an annual water supply and demand assessment and structured steps designed to respond to actual conditions. This level of detailed planning and preparation provide accountability and predictability and will help YVWD maintain reliable supplies and reduce the impacts of any supply shortages and/or interruptions.

This WSCP was prepared in conjunction with YVWD’s 2020 UWMP, which is included in the 2020 Upper Santa Ana River Watershed Integrated Urban Water Management Plan (2020 IRUWMP) and is a standalone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporated guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook (18).

IN THIS SECTION

- Water Supply Reliability
- Annual Water Supply and Demand Assessment
- Supply Shortage Stages and Response Actions

The WSCP describes the following:

1. **Water Service Reliability Analysis:** Summarizes YVWD's water supply analysis and reliability and identifies any key issues that may trigger a shortage condition.
2. **Annual Water Supply and Demand Assessment Procedures:** Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year and the steps to formally declare any water shortage levels and response actions.
3. **Six Shortage Stages:** Establishes water shortage levels to clearly identify and prepare for shortages.
4. **Shortage Response Actions:** Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand.
5. **Communication Protocols:** Describes communication protocols under each stage to ensure customers, the public, and government agencies are informed of shortage conditions and requirements.
6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions.
7. **Legal Authority:** Lists the legal documents that grant YVWD the authority to declare a water shortage and implement and enforce response actions.
8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens.
9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation. Results are used to determine if additional shortage response actions should be activated or if efforts are successful and response actions should be reduced.
10. **WSCP Refinement Procedures:** Describes the factors that may trigger updates to the WSCP and outlines how to complete an update.
11. **Special Water Features Distinctions:** Water use for decorative features shall be limited unless necessary to sustain aquatic life. Decorative features include ornamental fountains, ponds, and other aesthetic features.
12. **Plan Adoption, Submittal, and Availability:** Describes the process for the WSCP adoption, submittal, and availability after each revision.

1.0 Water Service Reliability Analysis

As part of the 2020 IRUWMP, YVWD completed a water supply reliability analysis for normal, single-dry, and five-year consecutive dry year periods.

Water supplies may be interrupted or reduced significantly in several ways, such as drought which limits supplies, an earthquake which damages delivery or storage facilities, or a regional power outage. YVWD uses the Water Shortage Contingency Plan for regional water supply sources (imported water and groundwater).

While water supply disruptions can occur for a variety of reasons, a weather-related water shortage, or drought, is one category of particular importance to the Yucaipa Valley Water District for reasons described below. Droughts are naturally occurring but unpredictable weather events of varying frequency, duration and severity. In the Yucaipa Valley, historical data indicates a high probability of short term and/or multi-year drought conditions.

2.0 Annual Water Supply and Demand Assessment

As an urban water supplier, YVWD must prepare and submit an Annual Water Supply and Demand Assessment (Annual Assessment). Starting in 2022, the Annual Assessment will be due by July 1 of every year, as indicated by CWC Section 10632.1. The Annual Assessment is an evaluation of the near-term outlook for supplies and demands to determine whether the potential for a supply shortage exists and whether there is a need to trigger a WSCP shortage level and response actions in the current calendar year to maintain supply reliability. This process will take place at the same time each year based on known circumstances and information available to YVWD at the time of analysis and can be update or revised at any time if circumstances change.

YVWD will establish and convene an internal WSCP Team to conduct the Annual Assessment each year. The WSCP Team includes the following staff:

- General Manager
- Chief Financial Officer
- Water Operations Manager
- Implementation Manager
- Water Resource Manager

The Annual Assessment procedure, including key data inputs and evaluation criteria, is summarized in Table 1. The Annual Assessment procedure and timeline, along with how it integrates with the annual assessment that will be conducted on a regional basis in parallel, is shown graphically in Figure 1.

Table 1. Annual Assessment Procedure

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
JAN - FEB	Estimate unconstrained demands for coming year	Demands will be estimated based on water sales forecasts from annual budget or prior year demands plus any anticipated changes	General Manager Chief Financial Officer
JAN - FEB	Estimate available supplies for the year, considering the following year will be dry	YVWD will estimate available supplies from the three sources of water used; local groundwater, imported water and surface water. YVWD will also align supply with the management areas specified in the Yucaipa Groundwater Sustainability Agency.	General Manager Water Resource Manager
JAN - FEB	Consider potential constraints that may impact supply delivery	<p>The District relies on groundwater for half of its water supply. There are approximately 36 wells within the service area with approximately 17 active wells in 2020. Groundwater levels have increased via imported water, otherwise groundwater would be limited as a reliable supply for customers. The wells, boosters, reservoirs, and pipelines throughout the District are adequate to provide safe and reliable drinking water to its current customers.</p> <p>The California Delta and State Water Project is a complex water conveyance system which results in several constraints to wholesale and retail water customers. Drought, environmental stressors, and aging infrastructure are current constraints that affect water deliveries to the region. The District's imported water supply is dependent on the allocation of water to San Bernardino Valley Municipal Water District and San Gorgonio Pass Water Agency. If the allocation is decreased greatly, the</p>	General Manager Water Operations Manager Implementation Manager Water Resource Manager

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
		<p>District will rely heavily on local groundwater supplies and recycled water.</p> <p>Surface water constraints are due to the stream characteristics within the District's service area. Birch Creek Oak Glen Creek, Wilson Creek and Yucaipa Creek are the drainages in the watershed and drain into the local groundwater basins. These creeks are considered ephemeral drainages which lack constant flow to provide adequate surface water and groundwater recharge capabilities.</p>	
FEB	<p>Convene WSCP Team to conduct Annual Assessment</p>	<p>Compare supplies and demands and discuss any constraints that may impact supply delivery. If the potential for a shortage exists, determine which shortage response level and actions are recommended to reduce/eliminate the shortage.</p> <p>Additionally, if the State declares a drought state of emergency and requires demand reductions, the WSCP Team will determine which water shortage level and response actions are needed to comply with the State mandate.</p>	<p>WSCP Team</p>
JUNE	<p>Board of Directors</p>	<p>If the potential for a shortage exists or the State has mandated demand reductions, the results of the Annual Assessment will be presented to the YVWD Board of Directors, including the recommended shortage level and response actions. The Board of Directors may order the implementation of a shortage level and will adopt a resolution declaring the applicable water shortage level.</p>	<p>General Manager Board of Directors</p>

TIMING	ASSESSMENT ACTIVITIES	PROCEDURE, KEY DATA INPUTS, EVALUATION CRITERIA AND OTHER CONSIDERATIONS	STAFF RESPONSIBLE
ON-GOING	Implement WSCP actions, if needed	Relevant members of YVWD staff will implement shortage response actions associated with the declared water shortage level	WSCP Team
BY JULY 1	Submit Retail Annual Assessment	Send Final Retail Annual Assessment to DWR	WSCP Team

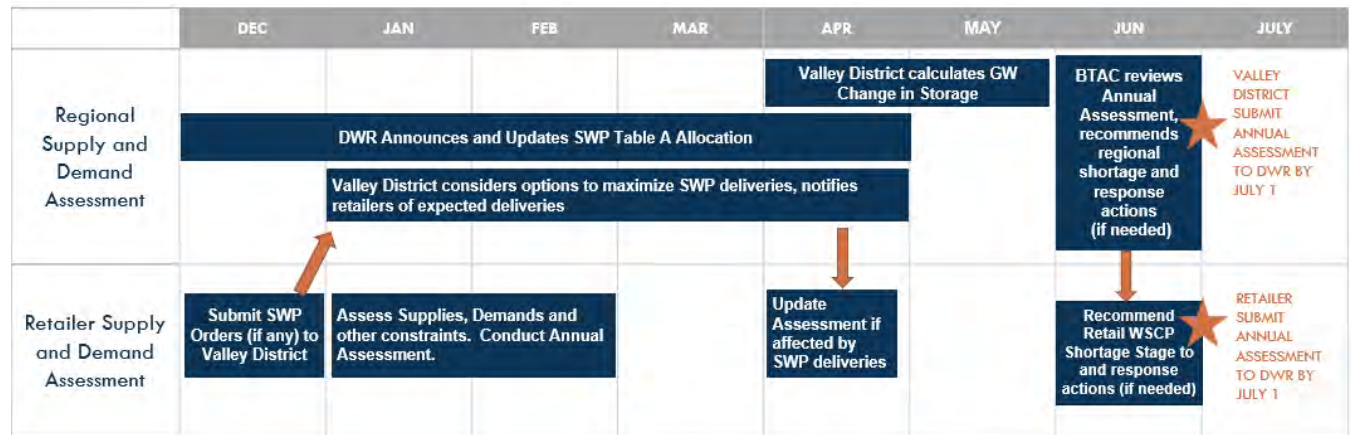


Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

3.0 Water Shortage Levels

If a potential water supply shortage is identified in the Annual Assessment, this section provides information on the water shortage levels and response actions that YVWD may implement.

YVWD uses six shortage stages to identify and respond to water shortage emergencies. At a minimum, YVWD encourages baseline conservation efforts year-round, regardless of a shortage emergency.

Stage I – Moderate Conditions

The District can meet all the water demands of its customers in the immediate future if water supplies decrease 10%. During moderate conditions, all water users should continue to use water wisely, to prevent the waste or unreasonable use of water per the District’s Water Waste Ordinance, and to reduce water consumption necessary for ordinary domestic and commercial purposes. Water conservation triggers and water saving objectives are not initiated at the Stage 1 level.

Stage II – Below Average Condition

In the event of a threatened water supply shortage of up to 20%, which could affect the District's ability to provide water for ordinary domestic and commercial uses, the public is informed as early as meaningful data are available that a possible shortage may occur. There are a variety of weather and other conditions that may cause concern about water availability and a potential water shortage. The most fundamental weather condition triggering a Below Average Water Supply Condition would result if winter season rainfall totals significantly less than the average annual rainfall of 18 inches per year for Yucaipa (as measured at the Mill Creek CDF Fire Station).

Actions

- Provide status update to Elected Officials at each weekly Board Meeting
- District staff to issue a water conservation press release/newsletter during the summer months as a reminder to customers to conserve water.
- District adds text to monthly billing to remind customers of water conservation practices. An example would be: "During the summer months, please remember not to water between the hours of 10:00am and 8:00 pm.
- District staff to monitor and record potable water irrigation practices at golf courses, parks, and schools to effectively regulate the use of limited potable supplies. This will entail contacting City and other public agencies to inform them of conditions and request their cooperation.
- District staff to encourage the use of the recycled water fill station to remain drought tolerant and promote continuous water conservation measures.
- Water shortage contingency planning team to hold meetings to include updates on water supply issues and alternatives to prepare for the next stage of the implementation plan.
- Prepare to establish purveyor "hotline", a frequently updated recording providing latest information and supply and demand data.
- Consult with other major customer groups, e.g., parks departments, landscape industry, forming a committee if needed, to assist the shortage advisory group to define message and provide feedback on utility actions.
- Prepare public information materials explaining the Water Conservation Implementation Plan stages and range of actions; prepare "Questions and Answers" for all customer groups, including those who may be planning new landscaping projects.
- Coordination with other regional water suppliers to learn what conditions they are projecting for their systems through the Basin Technical Advisory Commission.
- Intensify supply side management techniques to optimize existing sources.

- Assess current water main flushing and reservoir cleaning activities to determine whether they should be accelerated to be completed prior to the peak season or reduced to conserve supply.
- Assess water quality in reservoirs and distribution system to target for correction areas that may be predicted to experience problems.

Stage III: Serious Conditions

If supply conditions worsen, the plan moves to the Serious Stage, which relies on voluntary cooperation and support of customers to meet target consumption goals. During this stage, specific voluntary actions are suggested for both residential and commercial customers.

Actions

The WSCP team shall meet weekly to re-evaluate the situation based on current and projected supply conditions to determine the appropriate actions and strategies by determining target consumption goals to be achieved on a voluntary basis which may be revised, as necessary. On the consumption goal, some or all of the following actions will be taken

- Establish systematic communications with elected officials at the committee and Board level to communicate the nature and scope of voluntary measures and strategy
- Consult with customer groups throughout the shortage to help develop public information messages and materials and to obtain feedback on utility actions
- Initiate major public information, media, and advertising campaign. Establish routine timing for press releases (e.g., every Monday morning) that provide current status and outlook; present information in standardized format that becomes familiar to media and public.
 - Publish and promote consumption graph that displays the goal and previous 24-hour consumption in the local News Mirror;
 - Promote consumption goals for typical households, and a percentage reduction goal for commercial customers.
 - Develop and implement a marketing plan, including paid advertising, to keep customers informed about supply and demand conditions; reinforces desired customer actions; recommends customer actions to reduce demand sufficiently; and, depending on conditions, reminds customers that if goals are not achieved, restrictions may be necessary.
- Identify what potential next steps will be to reduce demand including timing, what type of restrictions and/or surcharges will be imposed.
- Include water quality information in public information so that if flushing is necessary, the public understands that it is essential for water quality maintenance.

- Publicize the water supply conditions web page, which is updated regularly. Ensure the information provided covers the needs of all key interests: the public, news media and purveyors.
- District staff to regulate construction meter activity. This may include restricting quantity of water used and the issuance of new construction meters.
- Intensify data collection actions (storage reservoirs, wells, and power supply) and monitoring weather forecasts.
- Initiate status report to entities with special interests, e.g., large water users especially landscape and nursery industry, parks, major water using industries.
- Meet with landscape industry representatives to inform them of current and projected conditions; develop partnership programs and informational materials on the shortage, consumption goals, etc. for distribution by industry and utilities.
- Establish and promote "hotlines" for customers to obtain additional conservation information.
- Contact largest customers to request percentage reduction.
- Provide a list of commercial car wash facilities that recycle water.
- Establish regular communication mechanism to keep Department employees, especially utility account representatives and water service consultants, up to date on goals, conditions, and actions.
- Print generic postcards to acknowledge receipt of customer correspondence regarding the shortage and to inform customer that specific response is being prepared.
- Initiate remaining planning and preparation for Severe Stage 4 which would require mandatory water conservation.

Stage IV Severe

- District staff will make recommendations regarding the nature, scope, and timing of restrictions to the members of the WSCP Team. The District staff will need to determine that the water supply and demand management strategies will not result in unacceptable water quality degradation.
- The General Manager recommends to the Board of Directors to implement mandatory conservation measures and other appropriate actions.
- The Board adopts a resolution on mandatory restrictions and, if needed and not already in place, emergency surcharges.
- The public is informed about the nature and scope of the mandatory restrictions through a press conference, paid advertising, and other means, including direct mail.

- The enforcement mechanisms, rate surcharges, target consumption goals, projections for how long restrictions will be in place and the reasons for imposing restrictions will also be identified, as will the possible consequences if goals are not met.
- Any exemptions from restrictions will be clearly identified.
- In communicating mandatory restrictions to the public, a clear distinction will be made between lawn/turf watering and watering gardens and ornamental plantings. The type and amount of watering allowed will be clearly defined.
- A "Customer Hotline" and possible phone app will be set up to report violations of restrictions.
- Communication actions from the previous stages will be continued and enhanced.
- Plans will be made to move into the Fifth Stage – Extreme Stage 5 - and to begin preparatory measures as appropriate.
- Intensify the District's computer modeling runs of projected supply, storage, and demand scenarios.

State V Extreme

Action

- Continue all previous, applicable actions.
- Define the problem to the public as an emergency and institute formal procedures to declare an emergency.
- Inform customers of the rate surcharge and how it will affect them. Provide information on an appeal process.
- Coordinate with police and fire departments requesting their assistance in enforcing prohibition of water waste.
- Inform customers that taste and odor water quality problems may occur with system-wide reduced water consumption.
- Inform customers about possible pressure reductions and problems this may entail.
- Define and communicate exemptions for medical facilities and other public health situations.

Stage VI Critical

Action

- Weekly community meetings to inform the public of the water shortage status and mandatory restrictions.
- Enforce fines with a tracking system to send to submit to the RWQCB and DWR.
- Indoor water use restrictions as well as the outdoor restrictions listed in previous stages.

Table 2: DWR 8-1 Water Shortage Contingency Plan Levels

SHORTAGE LEVEL	PERCENT SHORTAGE RANGE¹ (NUMERICAL VALUE AS A PERCENT)	WATER SHORTAGE CONDITION
1	Up to 10%	Moderate
2	Up to 20%	Below Average
3	Up to 30%	Serious
4	Up to 40%	Severe
5	Up to 50%	Extreme
6	>50%	Critical

¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.

4.0 Shortage Response Actions

The following sections address the specific implementation actions to respond to water shortages. Permanent water waste prohibitions are in affect as approved by Executive Order B37-16 in May 2016. The following prohibitions apply Statewide:

1. Hosing off sidewalks, driveways, and other hardscapes
2. Washing automobiles with hoses not equipped with a shut-off nozzle
3. Using non-recirculated water in a fountain or other decorative water feature
4. Watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation
5. Irrigating ornamental turf on public street medians.

4.1 Supply Augmentation

Table 3 identifies the supply augmentation actions YVWD will take in the event of a water shortage condition. YVWD currently maintains interconnections with San Bernardino Valley Municipal Water District. During water shortage emergencies, YVWD may be able to obtain supplemental water supply though these connections, if available.

Table 3: DWR 8-3R Supply Augmentation & Other Actions

SHORTAGE LEVEL	SUPPLY AUGMENTATION METHODS AND OTHER ACTIONS BY WATER SUPPLIER	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	ADDITIONAL EXPLANATION OR REFERENCE
2	New Recycled Water	2,500 AF	Aquifer Storage and Recovery
3	Other Purchases	11,500 AF	Three Party Agreement
4-6	Stored Emergency Supply	28783 AF	Yucaipa Basin (Banked Recharge)

4.2 Demand Reduction

The reduction on demand as a result of the implemented actions are represented below:

Table 4: DWR 8-2 Demand Reduction Actions

SHORTAGE LEVEL	DEMAND REDUCTION ACTIONS	HOW MUCH IS THIS GOING TO REDUCE THE SHORTAGE GAP?	PENALTY, CHARGE, OR OTHER ENFORCEMENT
1	Expand Public Information Campaign	10%	No
2	Rebates to Customers	10%	No
3	Decrease Line Flushing	10%	No
3	Expand Outreach Campaign	n/a	No
3	Landscape Restriction	10%	No
4	Increase Water Waste Patrols	20%	Yes
5	Improve Customer Billing	20%	Yes
6	Moratorium or Net Zero Demand Increase on New Connections	20%	Yes

4.3 Emergency Response Plan

The District is a participant in Emergency Response Network of the Inland Empire (ERNIE), a water/wastewater mutual aid network within San Bernardino and Riverside counties. During a Catastrophic Supply Interruption, the Mutual Aid Agreement with ERNIE will be implemented. The General Manager will contact general managers from surrounding agencies to obtain assistance in providing manpower for repairs and/or a supplemental supply of water.

4.4 Seismic Risk Assessment and Mitigation Plan

YVWD's 2021 Hazard Mitigation Plan which was approved in March 2021, provides information related to seismic risk in relation to water infrastructure. The area has many earthquake faults which result in complicated basin structures. The Yucaipa Basin has been studied by the U.S. Geologic Survey in order to understand characteristics of the basin. Due to the presence of multiple faults, liquefaction does have the potential to damage district facilities. The following table represents earthquake scenarios and the number of facilities affected

**INFASTRUCTURE EXPOSURE
6.9 SCENARIO EARTHQUATKE – S. SAN ANDREAS SAN BERNARDINO**

INFASTRUCTURE TYPE	VIII - SEVERE	VII – VERY STRONG	VI - STRONG
Recycled Booster Station	2	5	-
Recycled Reservoir	1	4	-
Sewer Structure	-	5	2
Water Booster Station	4	13	-
Water Reservoir	9	19	-

*YVWD Hazard Mitigation Plan, March 2019

4.5 Shortage Response Action Effectiveness

YVWD has estimated the effectiveness of shortage response actions when data pertaining to such actions is available. Estimates of the effectiveness for actions has been included in the DWR submittal tables. It is expected that response actions effectiveness is also a result of successful communication and outreach efforts. Attachment 1 identifies each stage of the shortage response actions.

5.0 Communication Protocols

YVWD prioritizes effective communication, especially in times of a water shortage emergency. YVWD routinely communicates to customers about details on when a stage is announced through bill inserts, website messaging and new releases in the local New Mirror. In addition, YVWD hosts community meetings during drought cycles. The purpose of the meetings is to brief residents on YVWD’s plan to ensure the community continues to receive safe and reliable water supplies. Community meetings are usually held in person at the water district’s drinking water facility but can also be available via Zoom if necessary.

6.0 Compliance and Enforcement

In the implementation of the WSCP, the California Water Code Section 31029 makes any violation of the District’s Water Shortage Contingency Plan a criminal misdemeanor and upon conviction thereof, the violator will be subject to punishment by fine, imprisonment, or both as may be allowed by law. In addition to criminal penalties, violators of the mandatory provisions of the ordinance will be subject to civil action initiated by the District.

No single strategy can be created which will meet the needs of the District for all emergency scenarios. The criteria established for the WSCP provides the full latitude for the Board of Directors to implementation penalties, charges and other enforcement prohibitions based on the specific situation.

Emergencies initially require quick and immediate response. Once an assessment is made as to how long it will take to restore the system, the immediate response strategy may change if it appears that the repair process will be lengthy. The strategy for most emergencies can be narrowed to measures having the most immediate impact on water supply and consumption. All needed and available back up supplies would be activated during an emergency, including the use of interties and standby water production wells.

Specific compliance and enforcement are not implemented until Stage IV of YVWD's WSCP. Enforcement mechanisms, rate surcharges, target consumption goals, projections for how long restrictions will be in place and the reasons for imposing restrictions will also be identified, as well the possible consequences if goals are not met.

7.0 Legal Authorities

YVWD adopted a water waste ordinance in May 2019. The ordinance allows YVWD to implement water use restrictions within the district boundaries in order to reduce water consumption. In addition, the sustainable groundwater management act provides an additional legal authority to enforce reduced water pumping from the groundwater basins. YVWD is involved in the Yucaipa Groundwater Sustainability Plan and the San Timoteo Groundwater Sustainability Management areas.

7.1 Water Shortage Emergency Declaration

In accordance with Water Code Section Division 1, Section 350 – Yucaipa Valley Water District shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

7.2 Local/Regional Emergency Declaration

If a water shortage is approaching, YVWD shall coordinate with any the cities and counties in its service area for the possible proclamation of a local emergency.

8.0 Financial Consequences of WSCP

It is difficult to precisely gauge the revenue and expenditure impacts of water shortages. The drought contingency plan provides for both prohibitions, water use allotments, and penalty pricing for exceeding allotments, the ultimate revenue impacts will be based upon a mix of responses to these requirements. Additionally, weather can be a factor as well. Customers may find it more difficult to meet allocations

during hot weather where a desire to maintain landscaping uses at a higher level exists, and therefore more customers may find themselves paying penalty rates.

For planning purposes, it is assumed that District conservation goals are met at each stage and that revenue losses are proportional to the commodity rate revenue not received, exclusive of penalty rates, plus revenue losses due to prohibitions. It is also assumed that additional District expenses for implementing the plan would be offset by excess use penalties.

Based upon YVWD's current fiscal situation, impacts during Stages I and II could be absorbed by District reserves without requiring a rate increase, provided the shortage condition did not persist for more than two years. Impacts beyond two years would need to be reassessed.

Stages III and beyond could require reductions in the pay-as-you-go portion of YVWD's Capital Improvement Program. Additionally, deferring non-critical maintenance items and filling some personnel vacancies would be considered. Should revenue loss impacts begin to affect essential District operations, a temporary emergency surcharge on the base water rate could be imposed to fund District operations.

YVWD makes contributions to a rate stabilization fund contribution in accordance with a District Designated Fund Policy. Funds discussed in the policy include the Rate Stabilization Fund and the Capital Replacement Fund.

In the event of a water shortage, a two-point program will be utilized to meet the fiscal shortfall of reduced water revenues:

1. Reduce operation and maintenance expenses
2. Defer selected capital improvement projects until water shortage situation improves.
3. Rate Stabilization Funds, once accumulated, will serve as a third means of meeting fiscal shortfalls.

9.0 Monitoring and Reporting

The water savings from implementation of the WSCP will be determined based on monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. Under shortage conditions, these production reports could be prepared as often as daily. At first, the cumulative consumption for the various sectors (e.g., residential, commercial, etc.) will be evaluated for reaching the target level. Then if needed, individual accounts will be monitored. Weather and other possible influences may be accounted for in the evaluation.

10.0 WSCP Refinement Procedures

The WSCP is best prepared and implemented as an adaptive management plan. YVWD will use results obtained from their monitoring and reporting program to evaluate any needs for revisions.

Potential changes to the WSCP that would warrant an update include, but are not limited to, any changes to trigger conditions, changes to the shortage stage structure, and/or changes to customer reduction actions.

Any prospective changes to the WSCP would need to be presented to YVWD's Board for discretionary approval. Once discretionary approval has been granted, YVWD will hold a public hearing, obtain any comments and adopt the updated WSCP. Notices for refinement and the public hearing date will be published in the local newspaper in advance of any public meetings.

11.0 Plan Adoption, Submittal and Availability

This WSCP was submitted to DWR through the WUE Data portal before the deadline of July 1, 2021.

This WSCP will be available to the public on YVWD's web site located at www.yvwd.us.

If YVWD identifies the need to amend this WSCP, it will follow the same procedures for notification to cities, counties and the public as used for the 2020 IRUWMP and for initial adoption of the WSCP.

YVWD adopted this WSCP with the 2020 IRUWMP. The 2020 IRUWMP and WSCP were made available for public review in June 2021 and a public hearing was held on June 22, 2021 to receive public input on the draft 2020 IRUWMP and the WSCP.

The Board of Directors adopted the 2020 IRUWMP and the WSCP at a public meeting on June 22, 2021. The resolution of adoption is included as an attachment.

Attachment 1: Yucaipa Valley Water District Shortage Response Actions

**ATTACHMENT 1
YUCAIPA VALLEY WATER DISTRICT
SHORTAGE RESPONSE ACTIONS**

WATER SHORTAGE LEVEL	SHORTAGE RESPONSE ACTION	SUPPLY GAP REDUCTION	RESPONSE ACTION TYPE
Water Shortage Level 1 – Moderate	Remind customers of the mandatory water use efficiency state requirements	None	Voluntary
Water Shortage Level 2 – Below Average	Prepare and release extensive public outreach campaign.	Low	Voluntary
Water Shortage Stage 3 - Serious	<p>Restrict construction meters to only essential purposes.</p> <p>Activate any existing interties to increase supply availability</p> <p>Request that Fire Department limit training exercises that use water</p> <p>Request that City agencies eliminate washing fleet vehicles unless recycling car washes are used.</p> <p>District field personnel will "tag" observed water waste such as hoses without shutoff nozzles, gutter flooding, etc. with notice that informs customer about the supply conditions and need to conserve.</p> <p>Evaluate ability to accelerate or enhance or expand long term conservation programs; implement as appropriate.</p>	Low	Mandatory (some actions are voluntary)
Water Shortage Stage 4 - Severe	<p>Prohibit all watering during the day, for example between 6:00 a.m. and 9:00 p.m.</p> <p>Limit all watering to a specific number of days per week or per month. This choice will depend on target consumption goals, the time of year and the extent to which watering is occurring, and how much demands have already decreased.</p> <p>Prohibit car washing except at commercial car wash facilities that recycle water.</p> <p>Rescind water construction meter hydrant permits.</p> <p>Limit pressure washing of buildings to situations that require it as part of scheduled building rehabilitation project (e.g., painting).</p>	Medium	Mandatory

**ATTACHMENT 1
YUCAIPA VALLEY WATER DISTRICT
SHORTAGE RESPONSE ACTIONS**

WATER SHORTAGE LEVEL	SHORTAGE RESPONSE ACTION	SUPPLY GAP REDUCTION	RESPONSE ACTION TYPE
Water Shortage Stage 5 - Extreme	Continue and enhance "Water Watcher" patrols. Continue actions listed in prior stages. Curtail fire flow and pipeline testing unless it can be shown to be essential to protect the immediate public health and safety. Further enhance water quality monitoring actions Rate surcharges would be implemented to encourage customer compliance with the restrictions	High	Mandatory
Water Shortage Stage 6 - Critical	Weekly community meetings to inform the public of the water shortage status and mandatory restrictions. Enforce fines with a tracking system to send to submit to the RWQCB and DWR. Indoor water use restrictions as well as the outdoor restrictions listed in previous stages.	High	Mandatory

Attachment 2: Ord 60-2019 Adopting New Water Conservation Rules and Regulations to Reduce Water Shortage and Water Waste

ORDINANCE NO. 60-2019

AN ORDINANCE OF THE YUCAIPA VALLEY WATER DISTRICT ADOPTING NEW WATER CONSERVATION RULES AND REGULATIONS TO REDUCE WATER SHORTAGE AND WATER WASTE

WHEREAS, Yucaipa Valley Water District (the "District") is a public agency of the State of California and organized and existing pursuant to the County Water District Law of this State under Section 30000 et seq. of the Water Code; and

WHEREAS, water is a public resource that the California Constitution protects against waste and unreasonable use.

WHEREAS, the adoption and enforcement of the Water Shortage and Water Waste Ordinance (Ordinance) is necessary to achieve sustainability of the District's potable water supply.

WHEREAS the District by adoption of this Ordinance intends to incorporate all rules and regulations pertaining to the District's Water Shortage Contingency Plan, SB X7-7 requirements, Executive Order B-37-16, AB 1668 and SB 606.

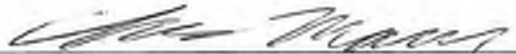
WHEREAS, the Board of Directors of the Yucaipa Valley Water District may, by Ordinance, establish regulations for water conservation and water use efficiency in order to ensure the community has a reliable source of potable water.

NOW, THEREFORE, BE IT ORDAINED by the Board of Directors of the Yucaipa Valley Water District, as follows:

1. Rules and Regulations for Water Shortage and Water Waste Prevention are hereby adopted by this Ordinance and supersedes prior versions.
2. Ordinance 48-1998, Section 5.15 is specifically superseded by this Ordinance.
3. This effectiveness and timeline of this Ordinance is defined in the attached Rules and Regulations.

PASSED, APPROVED and ADOPTED this 21st day of May 2019.

YUCAIPA VALLEY WATER DISTRICT



Chris Mann, President, Board of Directors

ATTEST:



Joseph B. Zoba, General Manager



Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399

**WATER CONSERVATION RULES AND REGULATIONS
TO REDUCE WATER SHORTAGE AND WATER WASTE**

Adopted on May 21, 2019

SECTION 1 - INTRODUCTION

1.1 GENERAL

Yucaipa Valley Water District (the "District") is dependent on local water supplies and imported water for domestic, agricultural, and industrial uses. Unreliable imported water supply trends have resulted in the need to increase water recharge and recycled water while also ensuring the District has a robust conservation program. The conservation of water supplies results in a direct reduction in the amount of imported water needed by the District.

In light of statewide water reliability circumstances due to drought, State Water Project conveyance and endangered species issues, it is the goal of the District to develop and expand water use efficiency throughout the service area. Developing water conservation and water waste prevention programs has multiple benefits including:

- A. Conserves groundwater and surface waters
- B. Establishes clear water conservation measures for customers
- C. Aligns with recently passed State legislation and supports the concepts presented in Making Water Conservation a California Way of Life.

1.2 PURPOSE

In accordance with water supply challenges, the State of California enacted several laws to reduce gallons per capita per day water use. The Water Conservation Rules and Regulations are permanent District requirements and not only during drought. Episodic drought events will trigger implementation of the District's Water Shortage Contingency Plan. These Rules and Regulations may be amended periodically by action of the Board of Directors.

1.3 GOALS

- A. Water is a public resource that the California Constitution protects against waste and unreasonable use.
- B. Reduce potable water use District-wide.
- C. Educate the community on the importance of water conservation
- D. Provide assistance to customers to achieve their water conservation goals.

1.4 APPLICABILITY

These Rules and Regulations shall apply to potable water use customers within the District's service area. The District establishes these standards in order to comply with the State regulatory requirements related to water use efficiency. These Rules and Regulations align with the requirements set forth by the State. The District's Board of Directors will periodically adjust water conservation programs to assist the community toward the reduction of potable water use.

1.5 SERVICE AREA

These Rules and Regulations pertain to the reduction of potable water use for the purpose of water conservation within the legal boundaries of the District unless otherwise stated. The District shall develop and implement programs that reduce water consumption throughout the entire service area.

1.6 SEVERABILITY

If any section, subsection, sentence, clause, phrase, part or portion of these Rules and Regulations is for any reason held to be invalid, such invalidity shall not affect any of the remaining portions of these Rules and Regulations. The District declares that each section, subsection, sentence, clause, phrase or part of these Rules and Regulations would have been adopted irrespective of the invalidity of any part. These Rules and Regulations shall be interpreted so as to comply with applicable State laws and regulation.

1.7 WORDS AND PHRASES

For the purpose of these Rules and Regulations all words used herein in the present tense shall include the future; all words in the plural number shall include the singular number; and, all words in the singular number shall include the plural number. The terms "Community" or "Customer" shall mean anyone in the District, and may include, without limitation, the applicant for such service, a customer of the District, a purveyor, and a property owner or resident.

1.8 INCORPORATED DOCUMENTS

The following documents, as they now exist and as they may be amended from time to time, are incorporated herein by this reference and made part thereof and thought fully set forth:

- A. Yucaipa Valley Water District Water Shortage Contingency Plan, 2015 Urban Water Management Plan Update.
- B. Yucaipa Valley Water District Water Conservation Rebate Program
- C. All applicable Federal, State and Local Regulations
- D. All other rules and regulations, as determined by the District's Board of Directors.

1.9 CONFLICTS

If there is any conflict between the provisions of these Rules and Regulations and the provisions of any of the documents incorporated by reference, the most restrictive requirement shall control and prevail, as determined by the District.

SECTION 2 - WATER CONSERVATION MANDATED BY THE STATE

2.1 GENERAL

The District is an Urban Water Supplier which is classified by 3,000 end users or that supplies more than 3,000 acre-feet of potable water annually at retail for municipal purposes. Retailers in this classification have specific reporting requirements to the State of California. The District shall conserve water in a manner that complies with applicable Federal, State, and local statutes, regulations, and other requirements, and will achieve the following.

- A. 20% reduction of water use from the baseline daily per capita water use by December 31, 2020. (SB X707)
- B. Water conservation milestones will be tracked through the District's Urban Water Management Plan which includes a Water Shortage Contingency Plan. (§10610-10656 and §10608)
- C. Residential, Commercial, Industrial, Institutional indoor and outdoor water use. (SB 606 and AB 1668)
- D. Implementation of water conservation programs pursuant California Water Code section 375 et seq.
- E. The District shall avoid placing a disproportionate burden on any customer sector.

2.2 STATEWIDE PERMANENTLY PROHIBITED PRACTICES (Executive Order B37-16)

California has suffered a multi-year drought which has reduced water supplies for many communities. Severe water conditions persist in many areas of the state despite episodic wet winters. Drought conditions are unpredictable and may persist for many years. In addition, warmer winters have reduced annual snowpack which is the water source for many parts of the state. Statewide permanent water restrictions were developed in order to increase long-term water conservation to strengthen California's resiliency to drought and climate change. The State Water Resources Control Board permanently prohibits:

- A. Hosing off sidewalks, driveways, and other hardscapes
- B. Washing automobiles with hoses not equipped with a shut-off nozzle;
- C. Using non-recirculated water in a fountain or other decorative water feature;
- D. Watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and
- E. Irrigating ornamental turf on public street medians.

2.3 2018 LEGISLATION ON WATER CONSERVATION AND DROUGHT PLANNING

The District's water conservation program aligns with the Urban Water Use Efficiency Standards and Water Use Objectives required by the State Water Resources Control Board (SWRCB) and the Department of Water Resources (DWR). The following regulations were developed as a result of Senate Bill 606 and Assembly Bill 1668. The information below is included in this Ordinance as it relates to the District's forthcoming required customer contribution to water conservation and the reduction of water waste.

- A. Urban Water Use Efficiency Standards – The District will utilize the Model Efficient Landscape Ordinance (MWELo) in order to develop standards for outdoor residential and CII water use as it applies to irrigable lands. Standards will include but not limited to; evapotranspiration adjustments and landscape area and type.

- B. The District is required to comply with indoor residential water use standards set by the State. This ordinance will be adjusted once specific standards are developed and defined by DWR and the SWRCB. The District will work with customers to comply with the reduction of indoor water use. CWC §10609.4(a)
- C. Urban Water Use Objectives - The urban water use objective is an estimate of the aggregate efficient water use from the previous calendar or fiscal year based on adopted water use efficiency standards and local service area characteristics for that year. The objectives consist of; residential efficient indoor and outdoor water use, CII water use, water loss, and any variances the District may receive from the State. Analysis of landscape size and type will be determined using up-to-date aerial imagery.
- D. The annual calculation of the Districts Water Use Objectives will define the conservation programs for the following year. The annual conservation programs will be approved by the Board of Directors.
- E. CII Performance Measures - The District currently requires CII customers to have a dedicated irrigation meter. DWR and the SWRCB will require all new CII customers to install a dedicated irrigation meter. The District may require high CII water users to conduct a water audit in order to determine water reduction strategies and/or water loss repair.
- F. Compliance and Enforcement
 - 1. Civil Liability – The District does not enforce civil liability for inefficient water use although CWC §377 grants local public agencies the ability to impose fines to customers.
 - 2. Water Rights Protection – State water use efficiency standards are to have no effects on water rights or the applicability related to water right holders' right to conserved water (CWC §1010 and 1011).
- G. Eliminate Water Waste – Permanent prohibitions on wasteful water practices are an additional water conservation goal of the District and also an annual reporting requirement to the State.
 - 1. The District will minimize urban retail water loss by bolstering programs such as; leak repair, annual water line leak detection programs and customer water audits.

SECTION 3 - YUCAIPA VALLEY WATER DISTRICT WATER SHORTAGE CONTINGENCY PLAN

3.1 WATER SHORTAGE CONTINGENCY PLANNING

Water supplies may be interrupted or reduced significantly in a number of ways, such as drought which limits supplies, an earthquake which damages delivery or storage facilities, or a regional power outage. Yucaipa Valley Water District (District) has a Water Shortage Contingency Plan for regional water supply sources (imported water and groundwater).

While water supply disruptions can occur for a variety of reasons, a weather related water shortage, or drought, is one category of particular importance to the District for reasons described below. Droughts are naturally occurring but unpredictable weather events of varying frequency, duration, and severity. In the Yucaipa Valley, historical data indicates a high probability of short term and/or multi-year drought conditions.

3.2 EXISTING INFRASTRUCTURE CAPABILITIES AND CONSTRAINTS

3.2.1 Local Surface Water

Surface water constraints are due to the stream characteristics within the District's service area. Birch Creek Oak Glen Creek, Wilson Creek and Yucaipa Creek are the drainages in the watershed and drain into the local groundwater basins. These creeks are considered ephemeral drainages which lack constant flow to provide adequate surface water and groundwater recharge capabilities.

3.2.2 Groundwater

The District relies on groundwater for half of its water supply. There are approximately 36 wells within the service area with approximately 20 active well sin 2018. Groundwater levels have increased via imported water, otherwise groundwater would be limited as a reliable supply for customers as stated in section 3.2.1. The wells, boosters, reservoirs, and pipelines throughout the District are adequate to provide safe and reliable drinking water to its current customers. If regional growth occurs, upgrades and additions to the water system would need to occur. Water supply in relation to growth is discussed in the Yucaipa Valley Water District's Urban Water Management Plan.

3.2.3 State Water Project Water

The California Delta and State Water Project is a complex water conveyance system which results in several constraints to wholesale and retail water customers. Drought, environmental stressors, and aging infrastructure are current constraints that affect water deliveries to the region. The District's imported water supply is dependent on the allocation of water to San Bernardino Valley Municipal Water District and San Gorgonio Pass Water Agency. If the allocation is decreased greatly, the District will rely heavily on local groundwater supplies.

3.3 WATER SUPPLY SOURCES

3.3.1 Surface Water

Drainage in the watershed includes ephemeral dry drainages consisting of Yucaipa Creek, Oak Glen Creek, Wilson Creek, Birch Creek and San Timoteo Creek. These creeks are generally dry during most of the year. Stream flows tend to be flashy, with water levels changing rapidly over time and large amounts of unconsolidated sediments scour the upper reaches and washes downstream. The total surface water supply for the District is approximately 2-3% of total water demands. Stormwater capture is included in the surface water demand totals.

3.3.2 Groundwater

Historically, the District has met the majority of service area customer needs from groundwater through groundwater extraction wells. The 1990's consisted of widespread urbanization in the region which resulted in an increase for the demand of water. This resulted in the need for additional sources of water since the local water supply could not replenish the local groundwater basins to maintain current and near future development. The District's current groundwater supply sources are approximately 32% of the total water supply portfolio.

3.3.3 State Water Project Water

The District began using imported water in 2006 when the Yucaipa Valley Regional Water Filtration Facility was completed which allowed for an additional water supply. Imported water use is dependent on several factors as listed above in infrastructure capabilities and constraints. The District averages approximately 50% water project water of the total water supply.

3.3.4 Recycled Water

Recycled water is also part of the District's water supply portfolio. Expansion of the recycled water system is occurring throughout the District. Currently the portion of recycled water used by District customer's averages 15% of the overall water supply sources.

3.4 STAGES OF ACTION

The District's Water Shortage Contingency Plan sets forth a six stage water shortage contingency plan for the conservation of water. The legislation states, "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. CWC §10632 (3)(A)

The Water Shortage Contingency Plan provides six stages of response based of increasing severity, as progressively more serious conditions warrant. This type of response would be appropriate to apply to a summer drought or other water service disruption. The six stages include

a variety of communications, internal operations, and supply and demand management strategies as appropriate, and are characterized as follows:

Stage	Percent Supply Reduction	Water Supply Condition
1	Up to 10%	Moderate
2	Up to 20%	Below Average
3	Up to 30%	Serious
4	Up to 40%	Severe
5	Up to 50%	Extreme
6	Greater than 50%	Critical

3.4.1 STAGE 1 - Moderate Conditions

The District is able to meet all the water demands of its customers in the immediate future if water supplies decrease 10%. During moderate conditions all water users should continue to use water wisely, to prevent the waste or unreasonable use of water per the District's Water Waste Ordinance, and to reduce water consumption necessary for ordinary domestic and commercial purposes. Water conservation triggers and water saving objectives are not initiated at the Stage 1 level.

3.4.2 STAGE 2 - Below average Water Supply Condition

In the event of a threatened water supply shortage of up to 20%, which could affect the District's ability to provide water for ordinary domestic and commercial uses, the public is informed as early as meaningful data are available that a possible shortage may occur.

Objectives

- To notice the cities, school district, developers and water users for potential water shortage thereby allowing all parties adequate planning and coordination time.
- To undertake supply management actions that forestalls or minimizes the need later for more stringent demand or supply management actions.

Triggers

As presented earlier, there are a variety of weather and other conditions that may cause concern about water availability and a potential water shortage. The most fundamental weather condition triggering a Below Average Water Supply Condition would result if winter season rainfall totals significantly less than the average annual rainfall of 18 inches per year for Yucaipa (as measured at the Mill Creek CDF Fire Station).

The Advisory would be withdrawn when projected water supplies such as State Water Project water and/or recycled water are in sufficient supply to provide normal water supply conditions to the District customers.

Public Message

The potential exists for lower than normal supply conditions may return to normal or, later on, we may need to reduce consumption.

Goal

Voluntary conservation measures resulting in up to 20% reduction in water use, which can generally be achieved by reducing residential landscaping, and irrigation use.

Action Plan:

- Brief elected officials
- District staff to issue a water conservation press release/newsletter during the summer months as a reminder to customers.
- District adds text to monthly billing to remind customers of water conservation practices. An example would be:
 - "During the summer months, please remember not to water between the hours of 10:00am and 8:00 pm. Thank you for conserving".
- District staff to monitor and record potable water irrigation practices at golf courses, parks, and schools to effectively regulate the use of limited potable supplies.
- District staff to encourage the use of recycled water fill station as a means to remain drought tolerant and promote continuous water conservation measures.
- Weekly planning meetings to include updates on water supply issues and alternatives to prepare for the next stage of the implementation plan.
- Intensify ongoing media education effort about the water system, particularly relationship of weather patterns to supply and demand; provide up to date data and implications for water use, if known.
 - Internal Operations for Advisory Stage:
- Prepare to establish purveyor "hotline", a frequently updated recording providing latest information and supply and demand data.
- Consult with other major customer groups, e.g., parks departments, landscape industry, forming a committee if needed, to assist the shortage advisory group to define message and provide feedback on utility actions.
- Prepare public information materials explaining the Water Conservation Implementation Plan stages and range of actions; prepare "Questions and Answers" for all customer groups, including those who may be planning new landscaping projects.
- Coordination with other regional water suppliers to learn what conditions they are projecting for their systems through the Basin Technical Advisory Commission.
- Intensify supply side management techniques to optimize existing sources.
- Assess current water main flushing and reservoir cleaning activities to determine whether they should be accelerated to be completed prior to the peak season or reduced to conserve supply.
- Assess water quality in reservoirs and distribution system to target for correction areas that may be predicted to experience problems.

3.4.3. STAGE 3 - Serious Non-Mandatory Conservation Measures

If supply conditions worsen, the plan moves to the Serious Stage, which relies on voluntary cooperation and support of customers to meet target consumption goals. During this

stage, specific voluntary actions are suggested for both residential and commercial customers.

Objectives

- To maintain or reduce demand to meet target consumption levels by customer voluntary actions.
- To minimize the need later for more stringent demand or supply management actions.
- To minimize the disruption to customers' lives and businesses while meeting target consumption goals.
- To maintain the highest water quality standards throughout the shortage.

Triggers

- The Serious Stage is implemented when one or both of the following factors applies:
 - Supply conditions identified in the Below Average Stage have not improved.
 - Demand levels indicate the need for a more systematic response to manage the situation
- Heavy groundwater pumping coupled with higher summer temperatures means that there might be an increased likelihood that water quality problems may become an issue. Consideration will be given to potential water quality issues in defining the supply and demand management strategies.

Goal

At this stage, the goal would be to achieve a 30% reduction in water use. Customers can generally achieve this goal through constant water conservation practices.

Action Plan

District staff shall meet frequently to re-evaluate the situation based on current and projected supply conditions to determine the appropriate actions and strategies. District staff will determine target consumption goals to be achieved on a voluntary basis which may be revised as necessary. On the consumption goal, some or all of the following actions will be taken; those actions that are asterisked (*) will be considered initially for implementation if demand reductions more than 30% percent below normal are necessitated, or later if voluntary measures implemented fail to deliver targeted savings.

- Establish systematic communications with elected officials at the committee and Board level to communicate the nature and scope of voluntary measures and strategy
- Consult with customer groups throughout the shortage to help develop public information messages and materials and to obtain feedback on utility actions
- Initiate major public information, media, and advertising campaign:
 - In daily newspapers, publish and promote consumption graph that displays the goal and previous 24 hour consumption;
 - Promote consumption goals for typical households, and a percentage reduction goal for commercial customers.

- o Develop and implement a marketing plan, including paid advertising, to keep customers informed about supply and demand conditions; reinforces desired customer actions; recommends customer actions to reduce demand sufficiently; and, depending on conditions, reminds customers that if goals are not achieved, restrictions may be necessary.
- Identify what potential next steps will be to reduce demand including timing, what type of restrictions and/or surcharges will be imposed.
- Establish routine timing for press releases (e.g., every Monday morning) that provide current status and outlook; present information in standardized format that becomes familiar to media and public.
- Include water quality information in public information so that if flushing is necessary, the public understands that it is essential for water quality maintenance.
- Publicize the water supply conditions web page, which is updated regularly. Ensure the information provided covers the needs of all key interests: the public, news media and purveyors.
- District staff to regulate construction meter activity. This may include restricting quantity of water used and the issuance of new construction meters.
- Intensify data collection actions (storage reservoirs, wells, and power supply) and monitoring weather forecasts.
- Initiate status report to entities with special interests, e.g., large water users especially landscape and nursery industry, parks, major water using industries.
- Meet with landscape industry representatives to inform them of current and projected conditions; develop partnership programs and informational materials on the shortage, consumption goals, etc. for distribution by industry and utilities.
- Establish and promote "hotlines" for customers to obtain additional conservation information.
- Contact largest customers to request percentage reduction. Contact City and other public agencies to inform them of conditions and request their cooperation.
- Prepare list of commercial car wash facilities that recycle water.
- Establish regular communication mechanism to keep Department employees, especially utility account representatives and water service consultants, up to date on goals, conditions, and actions.
- Print generic postcards to acknowledge receipt of customer correspondence regarding the shortage and to inform customer that specific response is being prepared.
- Initiate remaining planning and preparation for Severe Stage 4 which would require mandatory water conservation.

Internal Operations for the District's Serious Stage 3

- Continue actions listed in the Below Average Stage 2.
- Eliminate all operating system water uses determined not to be essential to maintain water quality such as pipeline flushing, reservoir overflows; complete cleaning of any reservoirs known to be vulnerable to warm weather taste and odor concerns.
- Increase water quality monitoring actions.
- Implement staffing reassignments as needed, and plan staffing changes which may be needed for the Mandatory Stage, including staff to enforce mandatory restrictions.

Supply and Demand Management Actions

- Restrict construction meters to only essential purposes*
- Activate any existing interties to increase supply availability*
- Request that Fire Department limit training exercises that use water.
- Request that City agencies eliminate washing fleet vehicles unless recycling car washes are used.
- District field personnel will "tag" observed water waste such as hoses without shutoff nozzles, gutter flooding, etc. with notice that informs customer about the supply conditions and need to conserve.
- Evaluate ability to accelerate or enhance or expand long term conservation programs; implement as appropriate.

3.4.4 STAGE 4 – Severe - Water Shortage Emergency: Mandatory Conservation Measures

If the voluntary Serious Stage 3 does not result in the reduction needed, the Severe Stage 4 prohibits or limits certain actions. This stage would be accompanied by an enforcement plan, which could include fines for repeated violation.

Objectives

- To achieve targeted consumption reduction goals by restricting defined water uses.
- To ensure that adequate water supply will be available during the duration of the situation to protect public health and safety.
- To minimize the disruption to customers' lives and businesses while meeting target consumption goals.
- To maintain the highest water quality standards throughout the shortage.
- To promote equity amongst customers by establishing clear restrictions that affect all customers.

Triggers

The General Manager, with approval from the Board of Directors, would approve progression to this stage if goals established in the previous stages have not been met, and additional action is needed. The specific restrictions imposed during this stage would be determined based on the season of the year, targeted demand levels, and other considerations previously mentioned. Variations of the specific restrictions may be applied based on water supply conditions. For example, lawn watering restrictions may simply consist of time of day restrictions; or, if conditions warrant, lawn watering could be restricted to certain times of day and allowed only once a week.

Public Message - "It is necessary to impose mandatory restrictions to reduce demand based on the current water shortage. We are continuing to rely on the support and cooperation of the public to comply with these restrictions but need the certainty and predictability of restricting certain water uses in order to ensure that throughout the duration of this shortage an adequate supply of water is maintained for public health and safety."

Goal

Mandatory conservation measures resulting in a 40% reduction in water use.

Action Plan

- District staff will make recommendations regarding the nature, scope, and timing of restrictions to the members of the Water Conservation Committee. The District staff will need to determine that the water supply and demand management strategies will not result in unacceptable water quality degradation.
- The General Manager recommends to the Board of Directors to implement mandatory conservation measures and other appropriate actions.
- The Board adopts a resolution on mandatory restrictions and, if needed and not already in place, emergency surcharges.
- The public is informed about the nature and scope of the mandatory restrictions through a press conference, paid advertising, and other means, including direct mail.
- The enforcement mechanisms, rate surcharges, target consumption goals, projections for how long restrictions will be in place and the reasons for imposing restrictions will also be identified, as will the possible consequences if goals are not met.
- Any exemptions from restrictions will be clearly identified.
- In communicating mandatory restrictions to the public, a clear distinction will be made between lawn/turf watering and watering gardens and ornamental plantings. The type and amount of watering allowed will be clearly defined.
- A "Customer Hotline" will be set up to report violations of restrictions.
- Communication actions from the previous stages will be continued and enhanced.
- Plans will be made to move into the Fifth Stage – Extreme Stage 5 - and to begin preparatory measures as appropriate.
- Intensify the District's computer modeling runs of projected supply, storage, and demand scenarios.

Internal Operation Plan for Mandatory Stage

- Continue appropriate actions from previous stages
- Finalize and implement procedures for exemptions from restrictions and/or emergency surcharges.
- Finalize and implement enforcement procedures for restrictions including highly visible "Water Watchers".
- Increase water quality monitoring actions at storage reservoirs.
- District staff to evaluate whether targeted consumption levels and supply conditions warrant a rate surcharge to reinforce voluntary actions and/or to recover revenue losses*; the General Manager makes recommendation to Board members
- Prepare appropriate legislation regarding emergency surcharges, if required

Supply and Demand Management Actions

Overall supply conditions will be considered at regular meetings by District staff and the members of the water conservation committee in evaluating which restrictions to impose.

Watering Restrictions

The following are several possible approaches to watering restrictions. The nature of the restrictions used will depend on the situation and may change as severity of the situation changes.

- Prohibit all watering during the day, for example between 6:00 a.m. and 9:00 p.m.
- Limit all watering to a specific number of days per week or per month. This choice will depend on target consumption goals, the time of year and the extent to which watering is occurring, and how much demands have already decreased.

Other Restrictions

- Prohibit use of any ornamental fountain using drinking water for operation or make-up.
- Prohibit car washing except at commercial car wash facilities that recycle water.
- Rescind water construction meter hydrant permits.
- Limit pressure washing of buildings to situations that require it as part of scheduled building rehabilitation project (e.g., painting).

Exemptions from Water Use Restrictions

- Lawn Watering Ban Exemption - Newly installed lawns may be exempted from a ban if the procedures listed below are followed. Those wishing to use this exemption would need to contact the District office in advance of the exemption being granted, providing their name, address, phone number, size of lawn and type of watering system. This information would allow the District to quantify the amount of water used under this exemption and to spot check for compliance. The procedures relating to the exemption and the requirements of the exemption would be clearly outlined at the time of the ban. The following procedures are subject to change:
 - Each applicant would be mailed a packet stating the requirements.
 - Once the requirements are met, an authorization packet would be mailed to the customer including a sign to be posted indicating that the District's requirements are being complied with.
 - New lawns must be properly installed, meaning that two inches of organic soil amendment, such as composted yard waste or biosolids, is cultivated into the top six inches of existing soil, at a minimum.
 - New lawns must be watered according to guidelines to be provided in the packet mentioned above.
 - For purposes of this exemption, "new lawn" refers to a lawn newly installed during the current year only. Over seeded or otherwise renovated lawns would not be exempt.
- In the event that the shortage continues to worsen and the Severe Stage 4 is invoked, this exemption would be revoked. It would also be revoked on a case-by-case basis if the rules stated above are not followed, or in the case of a water system emergency. Monitoring and enforcement are at the discretion of the District. The existence of an exemption to a watering ban would be announced early in the response process.
- Automatic Irrigation System Exemption - Users of automatic irrigation systems may be exempt from certain mandatory watering restrictions if proper procedures are

followed - but not from a total watering ban. This approach allows an alternate path to achieving savings due to the precision with which such systems can be operated but is not intended to be a loophole to avoid the need to curtail use. For example, if only 30 minutes of lawn watering is allowed per week, automatic irrigation systems which meet the criteria would be allowed to water based on a certain percentage of evapotranspiration (ET), such as 50%, instead of the time-limit based restriction. [Note: ET is a factor calculated according to climatic data, which is commonly used for lawn watering in commercial applications; ET data would be made available on the District's web page and in alternate formats.] In the event of a total watering ban, these users would also be prohibited from watering (unless other safety-based criteria are met, as stipulated in the Water Conservation Implementation Plan).

- The procedures to be met include:
 - The area must be audited by an Irrigation Auditor as certified by the Irrigation Association (list from the IA to be available on request).
 - Irrigation efficiency of the system must be at least 62.5%, as defined by the Irrigation Association (includes both system distribution uniformity and management practices).
 - A baseline irrigation schedule based on historical ET must be provided to the system's owner/operator.
 - The owner/operator must evaluate actual ET on at least a weekly basis and change the irrigation schedule if warranted by the ET index.
 - The owner/operator must contact the utility to provide the name of the auditor, date of inspection and the efficiency rating, as well as the name, address, and phone number of the contact person for the site being watered, prior to using the exemption
 - Time of day restrictions, such as watering prohibited between 6:00 am and 8:00 pm, would have to be met.
 - The system must have a functioning rain-shutoff device.
 - Watering limitations stipulated by the District would need to be followed. The limitations would be stated as a percent of ET, so that, for example, users who meet the above requirements would be able to water based on 50% of ET (the specific percent amount would be decided upon at the time the restriction is announced, depending on the supply outlook). The District's website (www.yvwd.dst.ca.us/conserves.htm) would be regularly updated to provide the information needed for those watering according to this exemption; the information would be available through other means as well.
- Other Exemptions - For purposes of dust control, water may be applied to construction areas or other areas needing to comply with air quality requirements. If recycled water is available, consider requiring or promoting that it be used for dust control, if feasible.
- Ball fields and play fields may be watered at the minimum rate necessary for dust control and safety purposes.
- The District will exempt customers with special medical needs such as home dialysis from any emergency surcharge provided individual customers notify the District of such a need

Water Supply Actions

- If not already implemented, activate interties and any other alternative sources of supply.

3.4.5 STAGE 5 - Extreme Conservation Measures

This addresses the extreme need for demand reduction and could include a combination of mandatory measures and rate surcharges. This could be used as the last stage of a progressive situation, such as a drought of increasing severity, or to address an immediate crisis, such as a facility failure.

Objectives

- Effectively enforce increasingly stringent water use restrictions. Secondly, significant rate surcharges are used to encourage customer compliance.
- A surcharge is a key component to the success of this stage and previous surcharge may be increased if appropriate.

Triggers

The Extreme Stage 5 is implemented when the Districts water supply is reduced by 50% and the District needs more conservation.

Action Plan

- Continue all previous, applicable actions.
- Define the problem to the public as an emergency and institute formal procedures to declare an emergency.
- Inform customers of the rate surcharge and how it will affect them. Provide information on an appeal process.
- Coordinate with police and fire departments requesting their assistance in enforcing prohibition of water waste.
- Inform customers that taste and odor water quality problems may occur with system-wide reduced water consumption.
- Inform customers about possible pressure reductions and problems this may entail.
- Define and communicate exemptions for medical facilities and other public health situations.

Goal

- Highly effective outreach campaign and enforcement for residential and commercial customers to reduce water consumption by 50%.

Internal Operations for Emergency Curtailment Stage

- Continue and enhance "Water Watcher" patrols.
- Continue actions listed in prior stages.
- Curtail fire flow and pipeline testing unless it can be shown to be essential to protect the immediate public health and safety.
- Further enhance water quality monitoring actions.

Supply and Demand Management Actions - Rate surcharges would be implemented to encourage customer compliance with the restrictions, as follows:

- Commercial Customers - Commercial, multifamily, and industrial users would be asked to reduce water use by a set percentage of their consumption during the same period in the previous year. Emergency rate surcharges would be established to provide an additional incentive to reduce water use. It is the District's intention to establish a multi-tiered structure. This "variable block approach" would allow for different surcharge rates based on the individual customer's consumption during the same period in the previous year. For example, if the District were to target desired reduction of 85% from the previous year's consumption in that period, any consumption between 0 and 85% would be billed at one rate and any consumption over 85% would be billed at another, much higher rate. In this way, the targeted reduction amount and resulting surcharges would be customized around each customer's water use patterns, while still resulting in a steep surcharge for consumption in excess of the target amount for each block.
- A billing system modification would be needed to allow the District to accomplish this. If this has not been done by the time it may be needed, a simple across-the-board rate surcharge would be applied.
- Residential Customers - A multi-tiered, increasingly steep rate structure would be implemented for residential customers (includes single-family dwellings and duplexes). While there are differences in household size, there is more similarity in residential domestic water use than there is in commercial water use.
 - All lawn and turf irrigation would be prohibited
 - Make recycled water available for street cleaning, construction projects, landscape irrigation, dust control, etc.
 - Require that all firefighting agencies discontinue the use of water in training exercises until emergency is over.
 - Rescind all construction meter or fire hydrant permits.

Short-Term Emergency Curtailment Plan

Although many of the demand reduction measures employed would be similar to those used during a progressive, weather-related shortage, short-term emergencies are unique because of a lack of preparation time and the urgency of immediate, large-scale demand reductions. Each emergency scenario is different, but most of them require major curtailment actions by customers. Also, unlike a drought, some emergencies would be localized, requiring demand reduction for only a limited geographic area.

Strategies for dealing with emergencies have been developed based on lessons learned from previous water utility events, other utility experiences, and a sorting of measures based on specific criteria.

Throughout water shortage events, consistent conservation messages and information on appropriate demand reduction measures should be delivered to water users through the media and by direct contact. Although exact demand reduction goals may not always be met by water users, the water demands during short-term emergencies must be curtailed enough to be beneficial and avoid more serious water shortages.

There are several criteria by which to decide which demand management measures are appropriate to initially reduce demand during an emergency:

- Timing can the measure(s) or action(s) deliver the necessary savings in the necessary timeframe, i.e., are immediate savings needed or can the system support a gradual reduction in demand;
- Magnitude of savings will the measure produce enough savings to make a meaningful difference i.e., reduce demand to the level the impaired water system can handle;
- Does the action make any impact at the time of year that the emergency occurs, i.e., banning lawn watering will have little impact in the winter months;
- How severe are the cost implications of the measure to the customer, including local business and industry.

3.4.6 STAGE 6 - Critical Stage

The District recognizes that a critical water situation exists. Without additional significant curtailment actions, a shortage of water for public health and safety will be imminent. No prior emergency in the District's history fits this description.

As stated previously, the water code requires six standard water shortage levels. The Critical Stage Level 6 defines a water shortage of 50% or more. All water restrictions required in the previous five stages will be enforced.

Objectives

To ensure the community understands the critical water shortage stage by advertising and hosting meetings and offering resources to assist with drastic water reductions throughout all sectors of the community

Triggers

The Critical Stage 6 is implemented when the Districts water supply is reduced by over 50% and the District needs more conservation.

Goal

To ensure the community has safe reliable indoor drinking water during a critical water shortage

Action Plan

- Monthly community meetings to inform the public of the water shortage status and mandatory restrictions.
- Enforce fines with a tracking system to send to submit to the RWQCB and DWR.
 - Indoor water use restrictions as well as the outdoor restrictions listed in previous stages.
- Internal Operations
- Streamline system to implement fines for non-compliance of water use restrictions

3.5 PENALTIES, CHARGES, OTHER ENFORCEMENT OF PROHIBITIONS

In the implementation of the water shortage contingency plan, the California Water Code Section 31029 makes any violation of the District's Water Shortage Contingency Plan a criminal

misdeemeanor and upon conviction thereof, the violator will be subject to punishment by fine, imprisonment, or both as may be allowed by law. In addition to criminal penalties, violators of the mandatory provisions of the ordinance will be subject to civil action initiated by the District.

No single strategy can be created which will meet the needs of the District for all emergency scenarios. The criteria established for the Water Shortage Contingency Plan provides the full latitude for the Board of Directors to implementation penalties, charges and other enforcement prohibitions based on the specific situation.

Emergencies initially require quick and immediate response. Once an assessment is made as to how long it will take to restore the system, the immediate response strategy may change if it appears that the repair process will be lengthy. The strategy for most emergencies can be narrowed to measures having the most immediate impact on water supply and consumption. All needed and available back up supplies would be activated during an emergency, including the use of interties and standby water production wells.

3.6 CONSUMPTION REDUCTION METHODS

The District offers various rebates to encourage conservation. The reduction goal is to balance supply and demand.

3.7 DETERMINING WATER SHORTAGE REDUCTIONS

Under normal conditions, the District prepares monthly production reports which are reviewed and compared to production reports and pumping statistics from prior months and the same period of the prior year. The data gathered summarized in these production reports are automatically generated on a daily basis to assist with the determination of water shortage reductions.

3.8 REVENUE AND EXPENDITURE IMPACTS

It is difficult to precisely gauge the revenue and expenditure impacts of water shortages. The drought contingency plan provides for both prohibitions, water use allotments, and penalty pricing for exceeding allotments, the ultimate revenue impacts will be based upon a mix of responses to these requirements. Additionally, weather can be a factor as well. Customers may find it more difficult to meet allocations during hot weather where a desire to maintain landscaping uses at a higher level exists, and therefore more customers may find themselves paying penalty rates.

For planning purposes, it is assumed that District conservation goals are met at each stage and that revenue losses are proportional to the commodity rate revenue not received, exclusive of penalty rates, plus revenue losses due to particular prohibitions. It is also assumed that additional District expenses for implementing the plan would be offset by excess use penalties.

Based upon the District's current fiscal situation, impacts during Stages I and II could be absorbed by District reserves without requiring a rate increase, provided the shortage condition did not persist for more than two years. Impacts beyond two years would need to be reassessed.

Stages 3 and beyond could require reductions in the pay-as-you-go portion of the District's Capital Improvement Program. Additionally, deferring non-critical maintenance items and filling some personnel vacancies would be considered. Should revenue loss impacts begin to affect essential

District operations, a temporary emergency surcharge on the base water rate could be imposed to fund District operations.

The District makes contributions to a rate stabilization fund contribution in accordance with a District Designated Fund Policy. Funds discussed in the policy include the Rate Stabilization Fund and the Capital Replacement Fund.

In the event of a water shortage, a two-point program will be utilized to meet the fiscal shortfall of reduced water revenues:

1. Reduce operation and maintenance expenses
2. Defer selected capital improvement projects until water shortage situation improves.
3. Rate Stabilization Funds, once accumulated, will serve as a third means of meeting fiscal shortfalls.

3.9 Catastrophic Supply Interruption

The District has identified system vulnerabilities due to fire, earthquake, and power outages. The District has developed an Emergency Response Plan. The District has in place back-up power supplies at critical locations within the distribution system. Due to South Coast Air Quality Management Board rules and economic restraints, a back-up power supply source at every plant within the District's system is not feasible. The District maintains portable pumps that can be used to transfer water internally but cannot be used for production.

Currently, the District's water storage capacity would provide a potable supply for customers' non-irrigation uses (assumes implementation of Water Shortage Contingency Plan) for an estimated two to three days. As described above, the District participates in multiple mutual aid agreements and has agreements in place for the provision of water supply and/or manpower. In the event of a natural or man-made disaster that could affect the District's ability to provide a potable water supply for up to thirty days, the following measures will be implemented as required:

- A. The Boil Water notification program will be activated. The notice will be provided to local radio stations and newspapers. The District will contact the media and City and County agencies. Customers will be notified of supplemental sources of water for cooking and drinking (e.g. swimming pools, water heaters, and bottled water).
- B. The District is a participant in Emergency Response Network of the Inland Empire (ERNIE), a water/wastewater mutual aid network within San Bernardino and Riverside counties. During a Catastrophic Supply Interruption, the Mutual Aid Agreement with ERNIE will be implemented. The General Manager will contact general managers from surrounding agencies to obtain assistance in providing manpower for repairs and/or a supplemental supply of water.
- C. A public information program will be initiated. The General Manager will appear on local television and provide daily reports to the local newspaper and radio stations. Members of the Board of Directors will speak to local service clubs and chambers of commerce.

DEFINITIONS

- 1,000 GALLONS** A common unit of water volume measurement also expressed as kgal.
- AFY** Acre-feet per year.
- AGRICULTURAL USE** Recycled water used for the watering of field and nursery crops, row crops, trees and vines, and crops or pastures for the feeding of fowl and livestock.
- AGRICULTURAL USER** Any person engaged in irrigation of food, fodder, fiber, seed, or nursery crops for commercial purposes.
- AUTOMATIC SYSTEM** Automatic controllers, timers, valves, and associated equipment used to program irrigation systems for the application of recycled water.
- AWWA** American Water Works Association
- BOARD** Shall mean the Board of Directors of the Yucaipa Valley Water District.
- CII Water Usage** Water used by commercial water users, industrial water users, institutional water users, and large landscape water users.
- CODE** The current California Code of Regulations, California Water Code and/or California Health and Safety Code.
- COMMERCIAL USE** Any building for office or commercial uses with water requirements which include, but are not limited to, landscape irrigation, toilets, sewer trap priming, urinals, and decorative fountains.
- COMMODITY CHARGE** A charge imposed by the District for all recycled water used, whether such water use is estimated or is actually metered.
- CONTRACTOR** A person, persons or firm entering into a legal agreement with the District or applicant for the performance of work on any portion of facilities subject to these Regulations.
- COST** The cost of labor, materials, transportation, supervision, engineering, and all other necessary expenses.
- COUNTY** The County of San Bernardino, California, or the County of Riverside, California, as applicable.
- CUSTOMER** Any person, group, firm, partnership, corporation, association, or agency that legally receives recycled water service from the District.
- CUSTOMER'S SERVICE VALVE** A valve independent of the District's facilities located in the customer's piping as close to the meter as practicable, the operation of which will control the entire water supply from the meter.
- DEPARTMENT OF WATER RESOURCES (DWR)** Manages the water resources of California, in cooperation with other agencies, to benefit the state's people and protect, restore, and enhance the natural and human environments.
- DEVELOPER** Shall mean any person who shall construct or develop any property, which may require recycled water service from the District.
- DISTRICT** Yucaipa Valley Water District staff and Board of Directors.
- DRINKING WATER** Water which conforms to the latest Federal, State, and local drinking water standards.

DUAL-PLUMBED SYSTEM A system that utilizes separate piping systems for recycled and/or recycled water and drinking water either (1) within a facility to serve plumbing outlets (excluding fire suppression systems) within a building or (2) outdoor landscape irrigation at individual residences.

ECONOMICALLY FEASIBLE Customer costs of recycled water facilities that are projected to be offset by long-term water cost savings or construction of facilities, as determined by the District, to the point of economic viability.

GENERAL MANAGER The General Manager of the Yucaipa Valley Water District.

GENERAL PUBLIC Any person(s) at large who may come in contact with facilities and/or areas where recycled water is approved for use.

GOVERNING BODY The Board of Directors of the Yucaipa Valley Water District.

GRAYWATER Untreated wastewater, which has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes and which does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. Graywater includes wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers.

GREENBELT AREAS A greenbelt area includes, but is not limited to, parkways, parks, golf courses, cemeteries, and landscaping within or surrounding a community.

HUMAN CONSUMPTION Per California Health and Safety Code Section 116275(e), human consumption is defined as drinking, bathing, or showering, hand washing, or oral hygiene. Recycled water and recycled water are not permitted for these purposes.

INDUSTRIAL WATER USER 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.

INFILTRATION RATE The quantity of water that can enter the soil in a specified time interval.

INSTITUTIONAL WATER USER 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.

IRRIGABLE LANDS Arable land under a specific plan for which a water supply is or can be made available and which is provided with or planned to be provided with irrigation, drainage, flood protection, and other facilities as necessary for sustained irrigation.

LANDSCAPE IRRIGATION SYSTEM All equipment and materials used for applying irrigation water to the use area from the service connection, including all piping, valves, sprinkler heads, controllers, and appurtenances.

LANDSCAPE IRRIGATION USE Recycled water used for the propagation and maintenance of trees, shrubs, ground cover and turf. This plant material is intended for erosion control and aesthetic value, not for resale/profit purposes.

LESSEE Person leasing property from the property owner.

LESSOR Property owner leasing property to a lessee.

MAINLINE Shall mean a water line in a street, highway, alley, or easement used for public and private fire protection and for the general distribution of water.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELo) New development and retrofitted landscape water efficiency standards are governed by the Model Water Efficient Landscape Ordinance (MWELo). All agencies must adopt, implement, and enforce the MWELo or a more stringent ordinance. Large water savings can be gained by efficient landscape design, installation, and maintenance.

OPERATIONS PERSONNEL Any employee of a customer, whether permanent or temporary, or any contracted worker who's regular or assigned work involves the supervision, operation, or maintenance of equipment on any portion of onsite facilities using recycled water.

OPERATOR A person(s) or firm who, by entering into an agreement with a user, is responsible for operating onsite facilities.

OWNER The person owning in fee title, or in whose name the legal title to the property appears, by deed duly recorded in the County Recorder's office, or the person in possession of the property or buildings under claim of, or exercising acts of ownership over same for himself, or as executor, administrator, guardian or trustee of the owner.

PERMIT Any written authorization required pursuant to this or any other regulation of the District.

PERSON Any human being, individual, firm, company, partnership, association and private or public or municipal corporation, the United States of America, the State of California.

PREMISES A lot or parcel of real property under one ownership, except where there are well defined boundaries or partitions such as fences, hedges or other restrictions preventing the common use of the property by several tenants, in which case each portion shall be deemed separate premises. Apartment houses and office buildings may be classified as single premises.

PROPERTY OWNER (OWNER) The holder of legal title to a property.

PURVEYOR An agency that supplies drinking or recycled water. The Yucaipa Valley Water District is a purveyor.

RECYCLED WATER As defined in Title 22, Division 4, Chapter 3, of the California Code of Regulations, means water which, as a result of treatment of wastewater, is suitable for direct beneficial use or a controlled use that otherwise would not occur; such treatment of wastewater having been accomplished in accordance with the criteria, including the level of constituents in combination with the means for assurance of reliability, as set forth in the California Code of Regulations. The District may also deliver water available from the District's recycled water facilities through its recycled water system, which may include, but is not limited to, a combination of tertiary disinfected wastewater, intercepted surface and subsurface stream flows, groundwater, and microfiltration and nanofiltration concentrate from the District's Water Filtration Facility.

RECYCLED WATER Water available from the District's recycled water facilities, which may include, but is not limited to, a combination of tertiary disinfected treated wastewater, intercepted surface and subsurface stream flows, groundwater, and microfiltration and nanofiltration concentrate from the District's drinking water treatment plant. This water is not acceptable for human consumption.

RECYCLED WATER DISTRIBUTION SYSTEM Individually or collectively, any recycled water facility or facilities financed, constructed, and dedicated to the District by an applicant, developer, or customer or financed and constructed by the District.

RECYCLED WATER USE Any water uses not requiring drinking water.

REGULAR WATER SERVICE Water service and facilities rendered for normal domestic, commercial, and industrial purposes on a permanent basis.

REGULATORY AGENCY Individually, or in concert, the Federal EPA, the State Water Resources Control Board, the California Regional Water Quality Control Board, the State Department of Health, the San Bernardino County Health Department, the Riverside County Health Department, Department of Fish and Game, U.S. Army Corp. of Engineers, Riverside County Flood Control, Yucaipa Valley Water District, or any other regulatory agency having jurisdiction.

RESIDENTIAL Any single family unit, any duplex or triple family unit, apartment or condominium not requiring licensing for occupancy and operation.

RULES AND REGULATIONS All applicable rules and regulations issued by appropriate regulatory agencies, including "Yucaipa Valley Water District Rules and Regulations for Water Service", and "Yucaipa Valley Water District Rules and Regulations for Sewer Connections and Use", as periodically amended.

RUN-OFF Unintentional flow of water along either natural or manmade surfaces of the ground off of the designated use area.

RWQCB Santa Ana Regional Water Quality Control Board.

SECRETARY The Secretary to the Board of Directors.

SERVICE CONNECTION FEE A charge imposed by and paid to the District to cover the installation costs of recycled water facilities to be paid for by the customer/applicant as a condition prior to service.

STATE WATER RESOURCES CONTROL BOARD State agency that oversees California's water resources and drinking water.

SURCHARGE A charge imposed by the District for the provision of special service not normally provided by the District.

TEMPORARY WATER SERVICE Water service and facilities rendered for construction work and other uses of limited duration, and the recycled water available.

URBAN WATER USE OBJECTIVE 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.

USE AREA The specific area designated to be served recycled water through on-site recycled water facilities.

USER Any person, group, firm, partnership, corporation, association, or agency who legally receives recycled water service from the District; a Customer.

VIOLATION Noncompliance with any condition or conditions of these Regulations and/or a user permit by any person, action, or occurrence, whether willfully or by accident.

WATER APPLICATION DEVICES Any mechanism or device that applies water at a predetermined rate onto a receiving area. Devices include, but are not limited to, impact sprinklers, pop-up sprinklers, rotor sprinklers, drip emitters, mini-micro-sprayers, bubblers, spinners, portables.

WATER AUDIT An analysis of the landscape to determine water waste practices and also where water conservation and efficiency can improve water use.

WATER CODE State of California Water Code

WATER DEPARTMENT The Board of Directors of the District performing functions related to the District's recycled water service, together with the General Manager and any other duly authorized representative.

WATER SERVICE The delivery of recycled water to a customer.

WATER SERVICE CONNECTION The District's facilities between the District's recycled water distribution system and the customer's recycled water service valve, including, but not limited to, the meter, meter box, valves, and piping equipment.

Attachment 3: Adoption Resolution

RESOLUTION NO. 2021-38

A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN

WHEREAS, the California Urban Water Management Planning Act, Water Code Section 10610 et seq. (the UWMP Act), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000-acre feet of water annually, prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan (WSCP); and,

WHEREAS, Yucaipa Valley Water District ("District") meets the definition of an urban water supplier for purposes of the UWMP Act; and,

WHEREAS, the UWMP Act specifies the requirements and procedures for adopting such Water Shortage Contingency Plans; and,

WHEREAS, pursuant to recent amendments to the UWMP Act, urban water suppliers are required to adopt and electronically submit their WSCPs to the California Department of Water Resources by July 1, 2021; and,

WHEREAS, The District has prepared a WSCP in accordance with the UWMP Act and SB 606, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and,

WHEREAS, the WSCP references and incorporates the Water Conservation provisions of the District's Water Waste Ordinance 60-2019 New Water Conservation Rules and Regulations to Reduce Water Shortage and Water Waste,

WHEREAS, in accordance with the UWMP Act, the District has prepared its WSCP with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals in preparing its WSCP, and has also utilized the California Department of Water Resources Guidebook for Urban Water Suppliers to Prepare 2020 Urban Water Management Plans, in preparing its WSCP; and

WHEREAS, in accordance with applicable law, including Water Code sections and 10642, and Government Code section 6066, a Notice of a Public Hearing regarding District's WSCP was published within the jurisdiction of the Valley District on June 4, 2021, and June 11, 2021; and,

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10608.26 and 10642, a public hearing was held on June 22, 2021, at 4:00 PM, or soon thereafter, via Zoom teleconference meeting, to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the WSCP and issues related thereto; and,

WHEREAS, pursuant to said public hearing on the WSCP, the District, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the District's service area regarding the preparation of the WSCP, encouraged community input regarding the District's WSCP; and,

WHEREAS, the District Board of Directors has reviewed and considered the purposes and requirements of the UWMP Act, the contents of the WSCP, and the documentation contained in the administrative record in support of the WSCP, and has determined that the factual analyses and conclusions set forth in the WSCP are legally sufficient; and,

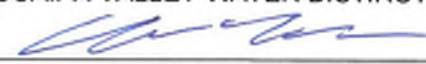
WHEREAS, the District Board of Directors desires to adopt the WSCP in order to comply with the UWMP Act.

NOW THEREFORE BE IT RESOLVED, the Board of Directors of the Yucaipa Valley Water District hereby resolve as follows:

1. The Water Shortage Contingency Plan is hereby adopted as amended by changes incorporated by the District's Board of Directors as a result of input received (if any) at the public hearing and ordered filed with the Secretary of the District's Board of Directors;
2. The General Manager is hereby authorized and directed to include a copy of this Resolution in the District's WSCP;
3. The General Manager is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the WSCP to the California Department of Water Resources no later than July 1, 2021;
4. The General Manager is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the WSCP to the California State Library, and any city or county within which Valley District provides water supplies no later than thirty (30) days after this adoption date;
5. The General Manager is hereby authorized and directed, in accordance with Water Code section 10645, to make the WSCP available for public review at the District's offices during normal business hours and on the District's website no later than thirty (30) days after filing a copy of the WSCP with the California Department of Water Resources;
6. The General Manager is hereby authorized and directed, in accordance with Water Code Section 10635(b), to provide that portion of the WSCP prepared pursuant to Water Code Section 10635(a) to any city or county within which the District provides water supplies no later than sixty (60) days after submitting a copy of the WSCP with the California Department of Water Resources;
7. The General Manager is hereby authorized and directed to implement the WSCP in accordance with the UWMP Act and to provide recommendations to the District's Board of Directors regarding the necessary budgets, procedures, rules, regulations or further actions to carry out the effective and equitable implementation of the WSCP.

PASSED AND ADOPTED this 22nd day of June 2021.

YUCAIPA VALLEY WATER DISTRICT



Chris Mann, President Board of Directors

ATTEST:



Joseph B. Zoba, General Manager

K-10: Consumer Confidence Report

K-11: Reduced Delta Reliance

Appendix A

SGPWA Delta Reliance

This Appendix provides the Delta Reliance assessment of San Geronio Pass Water Agency (SGPWA) and the retail water service agencies located within SGPWA's service area boundary. The retail agencies in SGPWA's service area boundary in this assessment include: City of Banning, Beaumont Cherry Valley Water District, Yucaipa Valley Water District, South Mesa Water Company, High Valley Water District, Cabazon County Water District, Mission Springs, and other smaller retailers that need not prepare an Urban Water Management Plan (UWMP). These retail agencies work with SGPWA on managing regional water supplies. SGPWA and its retail agencies, as a whole, reduce reliance on the Delta through investments in non-Delta water supplies, local water supplies, and regional and local demand management measures. Reliance on the Delta for SGPWA and its retail agencies can only be measured regionally, not by individual retail agencies. Demand management programs in the region increase the future reliability of water resources for the region, and demand management programs, including increased water use efficiency, provide region-wide benefits by decreasing the demand for imported water. It is infeasible to quantify the individual reliance on the Delta for SGPWA's retail agencies, and it accordingly reported on a regional basis.

This assessment is consistent with all applicable water management activities within the SGPWA service area boundary including the Beaumont Basin Adjudication and the formulative Groundwater Sustainability Plan (GSP) coordinated among the Yucaipa Basin GSA, San Timoteo Subbasin GSA, Verbenia GSA, and San Geronio Pass GSA.

A.1 Delta Reform Act and Certification of Consistency

The Delta Reform Act of 2009 requires state and local agencies to prepare a written certification of consistency with Delta Plan policies before initiating a covered action in the Delta. The written certification of consistency must be submitted to the Delta Stewardship Council and include detailed findings as to whether the covered action is consistent with applicable Delta Plan policies. The submitted certification of consistency may be appealed by any person and the Delta Stewardship Council may grant the appeal to address contested issues. In short, water suppliers that anticipate participating in a proposed covered action must comply with the requirements of the Delta Reform Act.

Proposed covered actions may include a multi-year water transfer, a conveyance facility, or a new diversion that involves transferring water through, exporting water from, or using water in the Delta. Urban purveyors that may participate in a proposed covered action should provide information in their Urban Water Management Plans (UWMP) that can be used to demonstrate consistency with the Delta Plan. Specifically, the urban purveyors may demonstrate consistency with Delta Plan Policy WR P1 –



Reduce Reliance on the Delta Through Improved Regional Water Self-Reliance (WR P1). WR P1 subsection (a) states that:

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. WR P1 subsection (c)(1) states:

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 with 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 in this Appendix includes all of 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 proposed covered action.



A.2 Expected Outcomes for Reduced Delta Reliance and Regional Self Sufficiency

The expected outcomes for this Delta reliance and improved regional self-reliance assessment were developed using guidance described in Appendix C of DWR’s Urban Water Management Plan Guidebook 2020 issued in March 2021 (Guidebook 2020). The data used in this assessment represent the total regional efforts of SGPWA and the retail agencies and were developed as part of a region-wide, coordinated process. Table A-1 shows SGPWA’s expected outcomes for reduced Delta reliance through 2045.

Table A-1: Expected Outcomes for Reduced Reliance on the Delta

Change in Supplies from the Delta Watershed	2015	2020	2025	2030	2035	2040	2045
Total Water Supplies from the Delta Watershed	36.6%	34.3%	37.8%	35.8%	42.6%	48.6%	52.0%
Change in Water Supplies from the Delta Watershed	-15.5%	-17.9%	-14.3%	-16.3%	-9.6%	-3.6%	-0.1%

The methodology for demonstrating reduced reliance on the Delta is consistent with DWR’s Guidebook 2020. SGPWA calculated its expected outcomes for reduced Delta reliance by measuring its current and anticipated water use against a baseline condition. SGPWA chose to use a weighted average of the retail agencies water conservation calculations for their 2015 UWMPs as its baseline for this assessment. SGPWA then assessed its Delta Reliance against the baseline condition for years 2015 through 2045.

The analysis uses normal water year demands to assess the supplies that would be used in the future. In addition, because WR P1 considers water use efficiency savings as a source of supply, the UWMP Act 20% water conservation mandates and the rules governing quantification help support water use efficiency quantification in the SGPWA service area. Table A-2 shows the SGPWA service area demands without water use efficiency and the reported water use efficiency consistent with the recommendations of Guidebook 2020.

Table A-2: Demands Without Water Use Efficiency

Change in Supplies from the Delta Watershed	2015	2020	2025	2030	2035	2040	2045
Service Area Demands with Water Use Efficiency	21,671	28,059	30,377	32,883	35,580	38,077	40,306
Estimated Water Use Efficiency Since Baseline	7,609	4,674	6,736	9,056	11,464	13,474	15,487
Service Area Demands without Water Use Efficiency	29,280	32,733	37,113	41,939	47,044	51,552	55,793

SGPWA must also report the expected outcomes for measurable improvement in regional self-reliance. Table A-3 shows the expected outcomes for supplies contributing to regional self-reliance. This assessment considers the total supplies that are used to meet regional water demands and shows the local supply percentages. These local supplies consist of various water rights, groundwater supplies, recycled water and other supplies that are locally developed and managed by retailers in the SGPWA service area.



Table A-3: Supplies Contributing to Regional Self-Reliance

Regional Self Reliance Assessment	2015	2020	2025	2030	2035	2040	2045
Percent of Demand met by Local Supplies	72.1%	67.9%	72.6%	74.7%	75.5%	75.4%	75.4%
Quantity of Local Supply	21,106	22,235	26,940	31,348	35,541	38,850	42,085

The data presented in this section demonstrate the expected outcomes for reduced Delta reliance and regional self-reliance and show that SGPWA and its retail agencies are measurably reducing their Delta reliance. The information contained in this Appendix is also intended to be an addendum to SGPWA’s 2015 UWMP consistent with WR P1 subsection (c)(1)(C) as well as an addendum to participating retail agencies’ UWMPs as desired. The information has been noticed and presented in accordance with applicable law.

A.3 UWMP Implementation

In addition to the analysis and documentation above, WR P1 subsection (c)(1)(B) requires that programs and projects included in the UWMP that are locally cost-effective and technically feasible, which reduce reliance on the Delta, be identified, evaluated, and implemented consistent with the implementation schedule. Water Code section 10631(f) requires water suppliers to provide a detailed description of expected future projects, and Chapter 3 in SGPWA’s UWMP includes this discussion as it relates to SGPWA’s future projects as do the relevant sections of the UWMPs prepared by SGPWA’s retail agencies.

