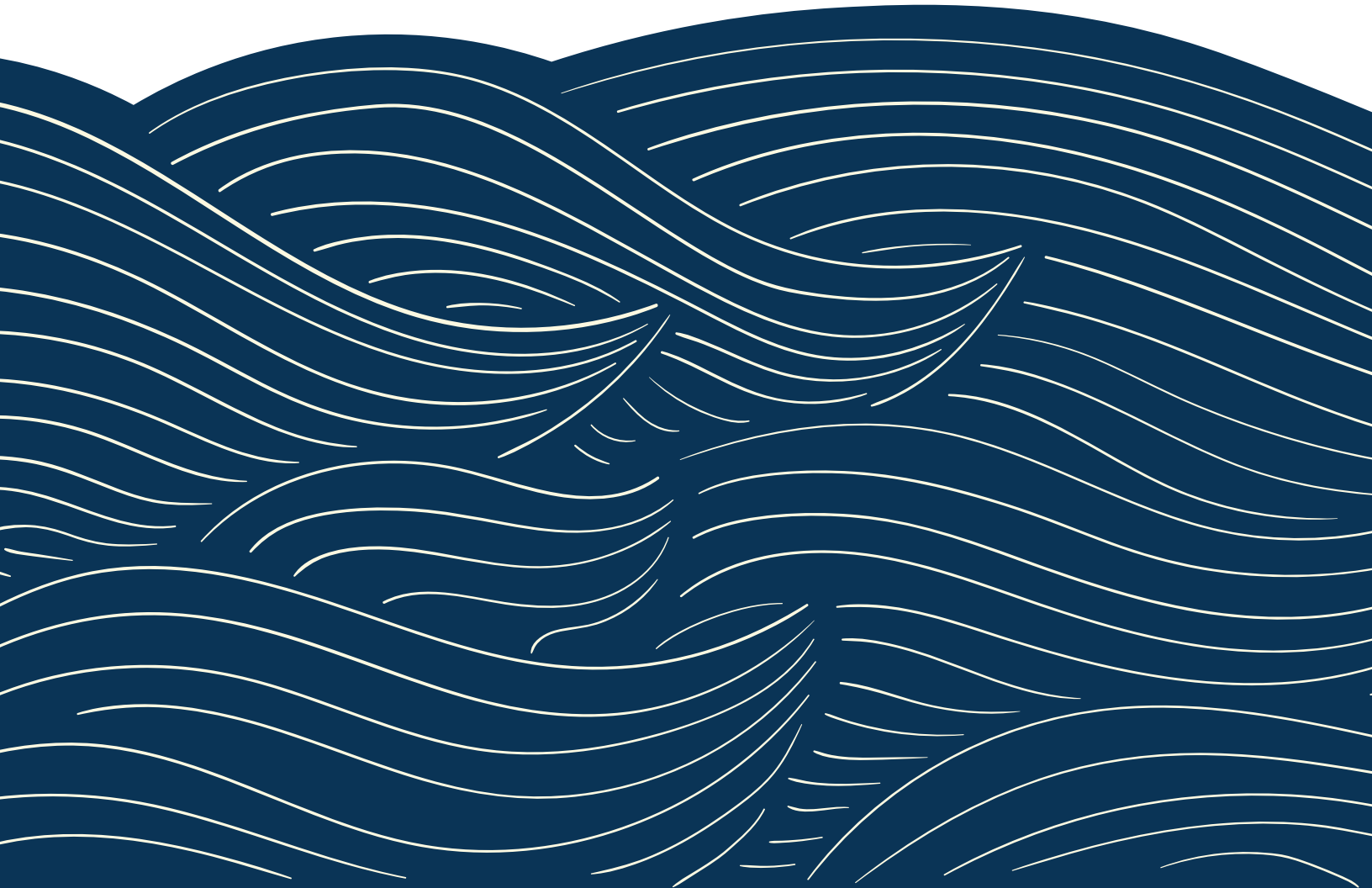
2020

PART 4: UWMP AGENCY SUPPORTING INFORMATION

UPPER SANTA ANA RIVER WATERSHED

INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN



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, *including changes in supply due to climate change.*	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

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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

SAN BERNARDINO Valley MUNICIPAL WATER DISTRICT

380 East Vanderbilt Way
San Bernardino, CA 92408
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fax: 909.387.9247
www.sbvmwd.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.

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.sbvmwd.com
San Bernardino Valley Water Conservation District	UWMP not required	www.sbvwcd.org
San Gorgonio 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

SAN BERNARDINO Valley MUNICIPAL WATER DISTRICT

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www.sbvmwd.com

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.

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.rialtoca.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.sbvmwd.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@sbvmwd.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
BBCCSD		Mary	Reeves	General Manager	mreeves@bbccsd.org
BBCCSD		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
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City of Loma Linda	Mr.	Konrad	Bolowich	Assistant City Manager	kbolowich@lomalinda-ca.gov
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Agency	Prefix	First Name	Last Name	Title	E-mail address
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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
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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
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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@JCSD.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		jgimpel@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
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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
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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
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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

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CITY OF LOMA LINDA
25541 BARTON ROAD
LOMA LINDA, CA 92354

SBS# 3480080

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

NOTICE
PUBLIC HEARING

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

* A 0 0 0 0 0 5 7 4 2 8 6 4 *

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-1Iw9W8ZeX3CUS0Q

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 UMWP 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 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 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

Phill 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

WUEdata - Loma Linda City Of

Sign Out

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:	10
Year beginning baseline period range:	1999
Year ending baseline period range[1]:	2008

5-year baseline period

Year beginning baseline period range:	2004
Year ending baseline period range[2]:	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

	Census Block Group Level	Census Block Level						
Year	% Population in SF Housing	Service Area Population	Population in SF Housing (calculated)	Population in MF/GQ Housing (calculated)	# SF Connections	# MF/GQ Connections	Persons per SF Connection	Persons per MF/GQ Connection
1990	58.42%	18,992	11,095	7,897			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			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	4480	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			3.01	25.52			
Year 2	2000			3.01	25.52			
Year 3	2001			3.01	25.52			
Year 4	2002			3.01	25.52			
Year 5	2003			3.01	25.52			
Year 6	2004			3.01	25.52			
Year 7	2005			3.01	25.52			
Year 8	2006			3.01	25.52			
Year 9	2007			3.01	25.52			
Year 10	2008			3.01	25.52			
5 Year Baseline Population Calculations								
Year 1	2004			3.01	25.52			
Year 2	2005			3.01	25.52			
Year 3	2006			3.01	25.52			
Year 4	2007			3.01	25.52			
Year 5	2008			3.01	25.52			
2020 Compliance Year Population Calculations								
2020		**4794**	**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: Published

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: Published

NOTES: -

Type of Supplier	Year Type	First Day of Year		Unit Type
		DD	MM	
Retailer	Calendar Years			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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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 Lom

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

STATUS: Published

NOTES: -

The supplier will complete the table.

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	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: Published

NOTES: Wastewater not treated within service area will provide a narritive description

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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: Published

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 he 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 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.	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: Published

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 Delievery 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	

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

[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 must be between December 31, 2004 and December 31, 2010.

[4]The 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: Published

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: Published

NOTES: -

Baseline Year *From SB X7-3*		Volume Into Distribution System *From SB X7-4A*	Deductions					Annual Gross Water Use
			Exported Water	Change in Distribution System Storage (+/-)	Indirect Recycled Water *From SB X7-4B*	Water Delivered for Agricultural Use	Process Water *From SB X7-4D*	
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: Published

NOTES: -

The supplier's own water source				
Name of Source:		**SBBA**		
Baseline Year *From SB X7-3*		**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 *From SB X7-3*		**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: Published

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: Published

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: Published

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: Published

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

Master Meter and Supply Error Adjustments

WATER SUPPLIED

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

					Pcnt:	Value:	
Volume from own sources:	5	4,711.780	acre-ft/yr	8		272.019	acre-ft/yr
Water imported:	3	1.160	acre-ft/yr	3			acre-ft/yr
Water exported:	3	5.156	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

Click here: ? for help using option buttons below

				Pcnt:	Value:	
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		11.089	acre-ft/yr

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

AUTHORIZED CONSUMPTION: ? 4,263.079 acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption) 172.686 acre-ft/yr

Apparent Losses

				Pcnt:	Value:	
Unauthorized consumption:		11.089	acre-ft/yr	0.25%		acre-ft/yr

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

Customer metering inaccuracies:	2	64.751	acre-ft/yr	1.50%	acre-ft/yr
Systematic data handling errors:		10.630	acre-ft/yr	0.25%	acre-ft/yr

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

Apparent Losses: ? 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 curbstop or property line? Yes

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

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

Average operating pressure: 5 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	☐ 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

Master Meter and Supply Error Adjustments

WATER SUPPLIED

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

					Pcnt:	Value:	
Volume from own sources:	8	5,060.000	acre-ft/yr	7	0.00%		acre-ft/yr
Water imported:	3	1.000	acre-ft/yr	2	0.00%		acre-ft/yr
Water exported:	n/a	0.000	acre-ft/yr				acre-ft/yr
WATER SUPPLIED:		**5,061.000**	acre-ft/yr				

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

AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

				Pcnt:	Value:	
Billed metered:	7	4,323.579	acre-ft/yr			
Billed unmetered:	n/a	0.000	acre-ft/yr			
Unbilled metered:	n/a	0.000	acre-ft/yr			
Unbilled unmetered:		63.263	acre-ft/yr	1.25%		acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: **4,386.842** acre-ft/yr

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

WATER LOSSES (Water Supplied - Authorized Consumption)

674.159 acre-ft/yr

Apparent Losses

				Pcnt:	Value:	
Unauthorized consumption:		12.653	acre-ft/yr	0.25%		acre-ft/yr

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

Customer metering inaccuracies:	5	43.673	acre-ft/yr	1.00%	acre-ft/yr
Systematic data handling errors:		10.809	acre-ft/yr	0.25%	acre-ft/yr

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

Apparent Losses: **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:	7	77.5	miles
Number of active AND inactive service connections:	7	5,447	
Service connection density:		70	conn./mile main

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

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

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

Average operating pressure:	7	57.0	psi

COST DATA

Total annual cost of operating water system:	10	$6,665,443	$/Year	
Customer retail unit cost (applied to Apparent Losses):	7	$1.81	$/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: 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

Master Meter and Supply Error Adjustments

WATER SUPPLIED

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

						Pcnt:	Value:	
Volume from own sources:	7	5,297.940	acre-ft/yr	7				acre-ft/yr
Water imported:	3	1.350	acre-ft/yr	1				acre-ft/yr
Water exported:	n/a	0.000	acre-ft/yr					acre-ft/yr

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

WATER SUPPLIED: 5,299.290 acre-ft/yr

AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

				Pcnt:	Value:	
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	1.25%		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

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

WATER LOSSES (Water Supplied - Authorized Consumption) 516.879 acre-ft/yr

Apparent Losses

				Pcnt:	Value:	
Unauthorized consumption:		13.248	acre-ft/yr	0.25%		acre-ft/yr

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

Customer metering inaccuracies:	5	47.638	acre-ft/yr	1.00%		acre-ft/yr
Systematic data handling errors:	5	11.790	acre-ft/yr	0.25%		acre-ft/yr

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

Apparent Losses: 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 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	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

Master Meter and Supply Error Adjustments

WATER SUPPLIED

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

					Pcnt:	Value:	
Volume from own sources:	8	4,772.860	acre-ft/yr	3			acre-ft/yr
Water imported:	5	1.120	acre-ft/yr	1			acre-ft/yr
Water exported:	n/a	0.000	acre-ft/yr				acre-ft/yr

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

WATER SUPPLIED: 4,773.980 acre-ft/yr

AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

				Pcnt:	Value:	
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	1.25%		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

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption) 537.715 acre-ft/yr

Apparent Losses

				Pcnt:	Value:	
Unauthorized consumption:		11.935	acre-ft/yr	0.25%		acre-ft/yr

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

Customer metering inaccuracies:	6	0.000	acre-ft/yr	0.00%		acre-ft/yr
Systematic data handling errors:	7	10.441	acre-ft/yr	0.25%		acre-ft/yr

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

Apparent Losses: ? 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 active AND inactive service connections:	7	5,592	
Service connection density:		47	conn./mile main

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

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

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

Average operating pressure: 7 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	☐ 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

WSC

CITY OF LOMA LINDA

Water Shortage Contingency Plan

City of Loma Linda

JUNE 2021

Prepared by Water Systems Consulting, Inc.

WSC

TABLE OF CONTENTS

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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

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

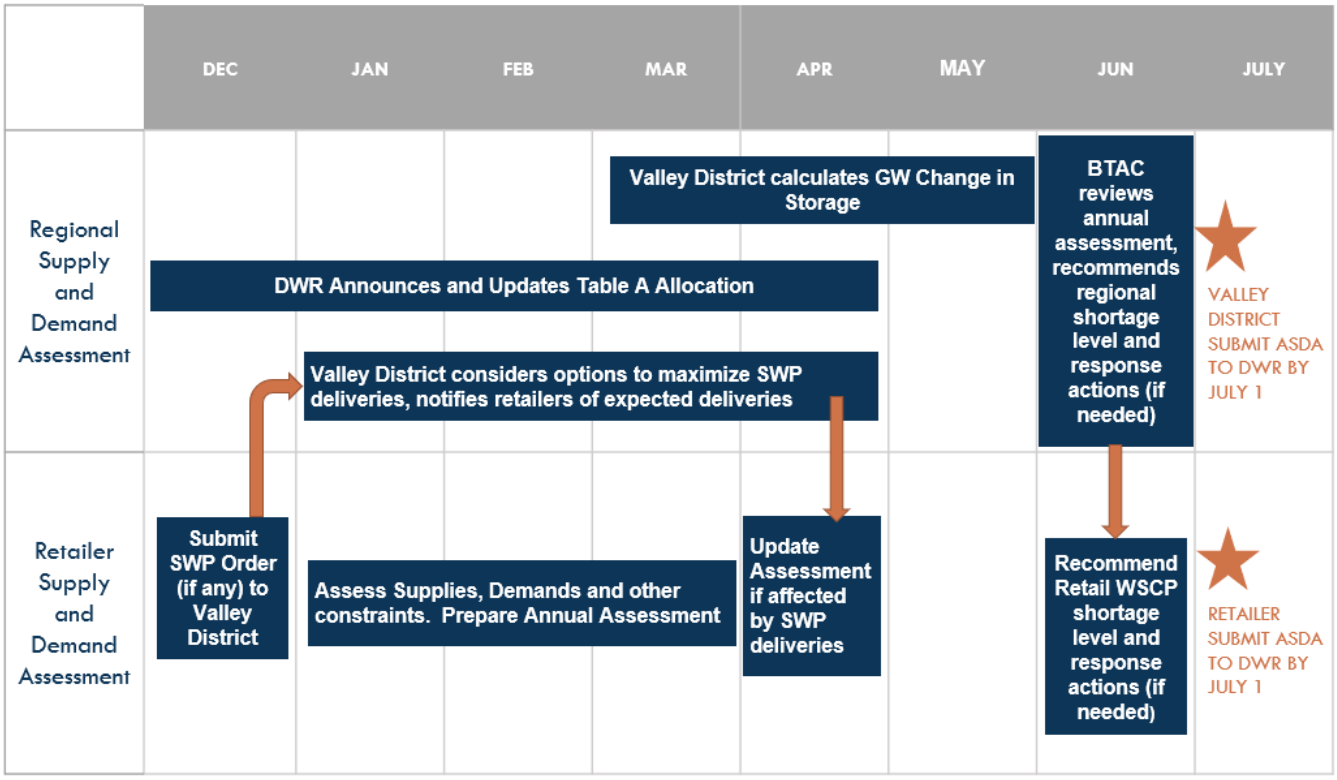

Figure 1. Regional and Retail Agency Annual Assessment Process and Timeline

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.**

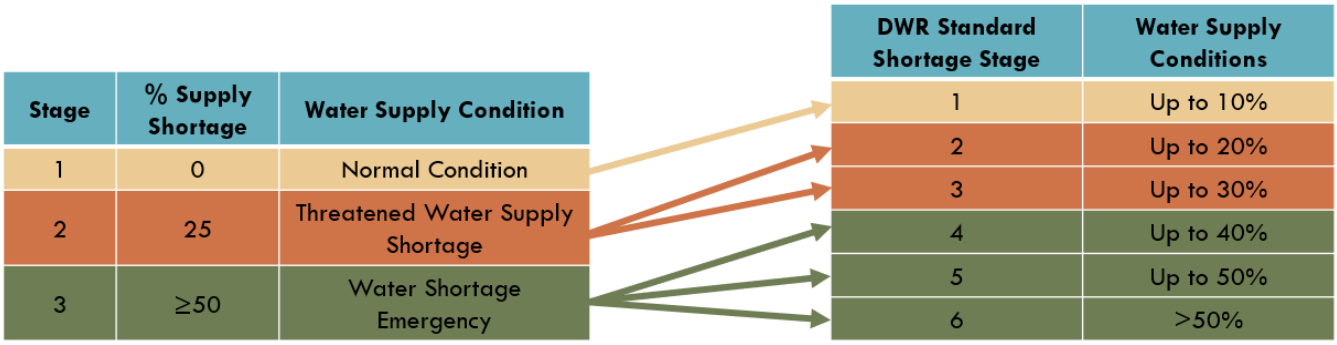

Figure 2. Crosswalk to DWR Six Standard Stages

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 he 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 ½"	$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) calender 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 that 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 Counsel 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 permitees, 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)

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 value 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 gallons/43,560 square feet)/12 inches = (0.62)

325,829 gallons = one acre foot

43,560 square feet = one acre

12 inches = 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 or 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) (o.8) (LA) (o.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:

$$\text{EWU (hydrozone)} = \frac{\text{(ETo) (PF) (HA) (.62)}}{\text{(IE)}}$$

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. Plans 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 de-sign 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 form 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
or Irrigation Designer/Consultant
or Licensed or Certified Professional in a Related Field

Signature

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

WHERAS, 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 sestions10608.26 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

Phill 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