

Appendices

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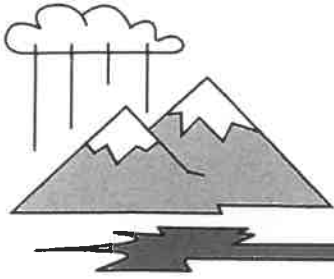
Appendix A Adoption Resolution

The final resolution for adopting the UWMP will be placed here

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Appendix B Outreach & Coordination



DIRECTORS

TED BAMBINO

BOB NASH

JIM SMITH

Jeff Thompson

FRANK SCHABARUM

DAVID J. COXEY

Secretary/Treasurer/General Manager

BELLA VISTA WATER DISTRICT

11368 E. STILLWATER WAY • REDDING, CALIFORNIA 96003-9510
TELEPHONE (530) 241-1085 • FAX (530) 241-8354

March 9, 2026

Mr. Jeff Cole, General Manager
Mountain Gate Community Services
14508 Wonderland Blvd.
Redding, California 96003

Subject: Notice of Preparation of the 2025 Bella Vista Water District Urban Water Management Plan (UWMP) Update

Dear Mr. Watkins:

Pursuant to the requirements of the California Water Code, Division 6, Part 2.6 Urban Water Management Planning, Section 10621 (b), every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.

This letter is intended to notify your agency that the Bella Vista Water District (District) is in process of preparing the 2025 UWMP update. Based on the District's current schedule, we expect to have a public review draft around May or June 2026, at which point will will issue a public notice that the draft UWMP is available for public review.

If your agency would like to submit comments or provide input to the District in anticipation of the development of the 2025 UWMP, please submit written comments to:

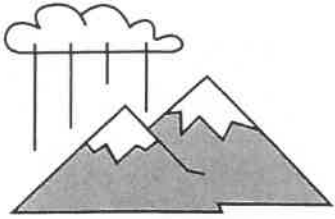
Tom Zaharris
Project Manager
11368 East Stillwater Way
Redding, CA 96003

Sincerely,

Tom Zaharris,
Project Manager

cc: Owen Kubit, Provost & Pritchard Consulting Group

We are an equal opportunity employer and provider.



DIRECTORS
TED BAMBINO BOB NASH
JIM SMITH Jeff Thompson
FRANK SCHABARUM

DAVID J. COXEY
Secretary/Treasurer/General Manager

BELLA VISTA WATER DISTRICT

11368 E. STILLWATER WAY • REDDING, CALIFORNIA 96003-9510
TELEPHONE (530) 241-1085 • FAX (530) 241-8354

March 9, 2026

Mr. Will Bond, City Engineer
Shasta Lake, City of
PO Box 777
Shasta Lake, CA 96019

Subject: Notice of Preparation of the 2025 Bella Vista Water District Urban Water Management Plan (UWMP) Update

Dear Mr. Watkins:

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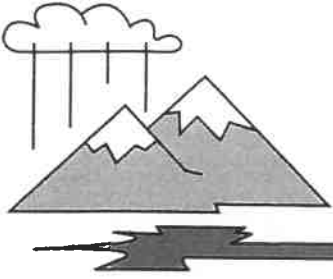
Tom Zaharris
Project Manager
11368 East Stillwater Way
Redding, CA 96003

Sincerely,

Tom Zaharris,
Project Manager

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BELLA VISTA WATER DISTRICT

11368 E. STILLWATER WAY • REDDING, CALIFORNIA 96003-9510

TELEPHONE (530) 241-1085 • FAX (530) 241-8354

March 9, 2026

Mr. Troy Bartolomei, Director
Shasta County Public Works
1855 Placer Street
Redding, California 96001

Subject: Notice of Preparation of the 2025 Bella Vista Water District Urban Water Management Plan (UWMP) Update

Dear Mr. Watkins:

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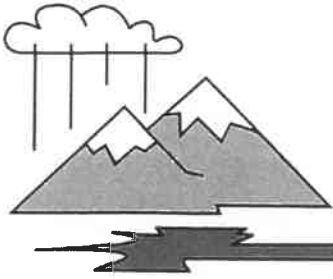
Tom Zaharris
Project Manager
11368 East Stillwater Way
Redding, CA 96003

Sincerely,

Tom Zaharris,
Project Manager

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BELLA VISTA WATER DISTRICT

11368 E. STILLWATER WAY • REDDING, CALIFORNIA 96003-9510
TELEPHONE (530) 241-1085 • FAX (530) 241-8354

March 9, 2026

Mr. Josh Watkins
Director of Public Works
City of Redding
P.O. Box 496071
Redding, CA 96049-6071

Subject: Notice of Preparation of the 2025 Bella Vista Water District Urban Water Management Plan (UWMP) Update

Dear Mr. Watkins:

Pursuant to the requirements of the California Water Code, Division 6, Part 2.6 Urban Water Management Planning, Section 10621 (b), every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.

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If your agency would like to submit comments or provide input to the District in anticipation of the development of the 2025 UWMP, please submit written comments to:

Tom Zaharris
Project Manager
11368 East Stillwater Way
Redding, CA 96003

Sincerely,

Tom Zaharris,
Project Manager

cc: Owen Kubit, Provost & Pritchard Consulting Group

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Appendix C Notice of Public Hearings

The public hearing notice for adopting the UWMP will be placed here

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Appendix D DWR Standard Tables

Submittal Table 2-1 Retail: Public Water Systems			
Public Water System Number	Public Water System Name	Number of Municipal Connections 2025	Volume of Water Supplied 2025 (AF)
Add additional rows as needed			
CA4510014	Bella Vista Water District	6,198	8,436
Total		6,198	8,436
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.			
NOTES:			

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Submittal Table 2-2: Plan Identification		
Select One	Type of Plan	Name of Regional Alliance or RUWMP (Drop Down List)
<input checked="" type="checkbox"/>	Individual UWMP	
	If Water Supplier is also a member of a SB X7-7 Regional Alliance, select name from the drop-down.	
<input type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)	
	If Supplier selected RUWMP, select name from the drop-down.	
NOTES:		

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Submittal Table 2-3: Supplier Identification	
Type of Supplier (select one or both)	
<input type="checkbox"/>	Supplier is a wholesale supplier
<input checked="" type="checkbox"/>	Supplier is a retail supplier
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables are in calendar years
<input type="checkbox"/>	UWMP Tables are in fiscal years
If using fiscal years provide month and date that the fiscal year begins (mm/dd)	
Units of measure used in UWMP (Select from the drop down list).	
Unit	AF
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.	
NOTES: 	

Submittal Table 3-1 Retail: Population - Current and Projected Water Code Section 10631(a)						
Population Served	2025	2030	2035	2040	2045	2050(opt)
	18,553	18,575	18,598	18,620	18,642	18,664
<p>NOTES: The future populations are predicated on an annual growth rate of 0.024% based on a continuation of the slow growth that the District has experienced over the last 10 years and the number of new connections to the District's water system over the last five years.</p>						

CWC 10631(a) describe the current and projected population of the service area including current and projected population...

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Submittal Table 4-1 Retail: Total Uses for Potable and Non-Potable Water — Actual Water Code Section 10631(d)(1)			
Use Type <small>Drop down list May select each use multiple times These are the only use types that will be recognized by the WUEdata online submittal tool</small>	Additional Description (as needed)	2025 Actual Water Use	
		Potable or Non-Potable (OPTIONAL) Drop down list	Volume (AF)
Add additional rows as needed			
Single Family	Residential	Potable	2,866
Single Family	Rural SFR with Agriculture	Potable	2,216
Multi-Family		Potable	133
Commercial		Potable	241
Institutional/Governmental		Potable	420
Landscape		Potable	785
Agricultural		Potable	1,248
Other (optional)	Construction	Potable	4
Other (optional)	Line flushing, fire fighting, etc.	Potable	8
Distribution System Water Loss		Potable	517
		Subtotal Potable	8,436
		Subtotal Non-Potable	0
		Total	8,436
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-			
NOTES:			

CWC 10631(d)(1) For an urban retail water supplier, quantify, to the extent records are available, past and current water use...identifying the uses among water use sectors including but not limited to:

- (A) Single-family residential.
- (B) Multifamily.
- (C) Commercial.
- (D) Industrial.
- (E) Institutional and governmental.
- (F) Landscape.
- (G) Sales to other agencies.
- 4 | Water Use Characterization
Draft | November 2025 4-10
- (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.
- (I) Agricultural.
- (J) Distribution system water loss

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Submittal Table 4-2 Retail: Total Uses for Potable, and Non-Potable Water — Projected Water Code Section 10631(d)(1)							
Use Type	Additional Description (as needed)	Projected Water Use (Report To the Extent that Records are Available)					
Drop down list May select each use multiple times These are the only Use Types that will be recognized by the		Potable or Non-Potable (OPTIONAL) Drop down list	2030 (AF)	2035 (AF)	2040 (AF)	2045 (AF)	2050 opt (AF)
Add additional rows as needed.							
Single Family	Residential	Potable	2,930	2,988	3,048	3,109	3,171
Single Family	Rural SFR with Agriculture	Potable	2,265	2,310	2,357	2,404	2,452
Multi-Family		Potable	134	137	139	142	145
Commercial		Potable	236	241	246	251	256
Institutional/Governmental		Potable	439	448	457	466	475
Landscape		Potable	807	823	840	856	873
Agricultural		Potable	1,245	1,245	1,245	1,245	1,245
Other (optional)	Construction	Potable	9	9	9	9	10
Other (optional)	Line flushing, fire fighting, etc.	Potable	11	11	11	11	11
Distribution System Water Loss		Potable	727	741	756	771	787
Subtotal Potable			8,802	8,953	9,107	9,265	9,425
Subtotal Non-Potable			0	0	0	0	0
Total			8,802	8,953	9,107	9,265	9,425
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.							
NOTES:							

CWC 10631(d)(1) For an urban retail water supplier, quantify, to the extent records are available... projected water use...identifying the uses among water use sectors...

Submittal Table 4-3 Retail: Inclusion in Water Use Projections Water Code Section 10631 (a), 10631 (d)(4)(A), and 10631 (d)(4)(B)	
Are Future Water Savings Included in Projections? Drop down list (y/n)	No
If "Yes" to above, state the section or page number , in the cell to the right, where citations of the codes, ordinances, or otherwise are utilized in demand projections are found. Optional Suppliers may complete Optional Submittal Table 4-4 R to quantify the expected savings.	
Are Lower Income Residential Demands Included In Projections? Drop down list (y/n)	No
Optional If the method for accounting Lower Income Residential Demands has been included, provide page number where this accounting can be found.	
DWR NOTES: Additional guidance is provided in Appendix K.	
NOTES:	

CWC10631 (d) (4) (A) Water use projections, **where available**, shall display and account for water savings estimated to result from adopted codes, standards, ordinances, or transportation and land use plans identified by the urban water supplier, as applicable to the service area.

CWC 10631 (d) (4) (B) to the extent that an urban water supplier reports the information described in subparagraph (A), an urban water supplier shall do both of the following: (i) Provide citations of the various codes, standards, ordinances or transportation and land use plans utilized in making the projections.
 (ii) Indicate the extent that the water use projections consider savings from codes, standards, ordinances, or transportation and land use plans. Water use projections that do not account for these water savings shall be noted of that fact.

CWC 10631(a) Water use projections required by section 10631 shall include projected water use for single-family and multifamily residential housing needed for lower income households, as identified in the housing element of any city, county, or city and county, in the service area of the supplier .

Submittal Table 4-5 Retail: Water Loss Audit Reporting Water Code Section 10631(d)(3)(A)		
Public Water System ID # Reported in Table 2-1 R	Reporting Period	Submitted to DWR Water Loss Audit Program (yes/no)
Report submittal status for all five years for each Public Water System as available. Add rows as needed		
	2020	Yes
	2021	Yes
	2022	Yes
	2023	Yes
	2024	Yes
DWR NOTES: Suppliers will provide a link to the WUEdata submittals of their Water Loss Audit Reports.		
NOTES:		

CWC 10631(d)(3) (A) The distribution system water loss shall be quantified for each of the five years preceding the plan update, in accordance with rules adopted pursuant to Section 10608.34.

Submittal Table 4-6 Retail: Progress Towards 2028 Water Loss Standard											
Water Code Section 10631(d)(3)(C)											
Public Water System ID # Reported in Submittal Table 2-1 R	Did the Water Board Calculate a Water Loss Standard for this Public Water System? (y/n) If no, Supplier will not complete this row.	Real Water Loss					Apparent Water Loss				
		State Water Board Standard		Most Recent AWWA Water Loss Audit		Real Water Loss Per Unit per Day	State Water Board Standard		Most Recent AWWA Water Loss Audit		Apparent Water Loss Per Unit per Day
		2028 Real Water Loss Standard per Unit per day	Units for Real Water Loss Drop down list	Number of Units (Connections or Miles corresponding with units selected)	Volume of Total Real Loss (from AWWA Water Loss Audit) (AF)		2028 Apparent Water Loss Standard per Unit per Day	Units for Apparent Water Loss	Number of Connections	Volume of Total Apparent Loss (from AWWA Water Loss Audit) (AF)	
Add additional rows as needed.											
CA4510014	Yes	695.708	Gallons per Mile per Day (GPMD)	236.55	696.52	2,628.68	33.9	Gallons per Service Connection per Day (GPSCD)	6374	202.07	28.3
								Gallons per Service Connection per Day (GPSCD)			
								Gallons per Service Connection per Day (GPSCD)			
Water Board's Calculated Water Loss Standards											
DWR NOTES: Units of measure (AF, CCF, MG) for Water Loss MUST remain consistent with units reported in Submittal Table 2-3. The units reported in Submittal Table 2-3 are used in this table's calculations.											
NOTES:											

CWC 10631(d)(3)(C) In the plan due July 1, 2021, and in each update thereafter, data shall be included to show whether the urban retail water supplier met the distribution loss standards enacted by the board pursuant to Section 10608.34.

Submittal Table 5-1 Retail: SB X7-7 2020 Target Progress
Water Code Section 10608.40

Check the box if the Supplier was not an Urban Water Supplier during or before the 2020 UWMP reporting cycle. Proceed to the next table.

Was Supplier part of a merger or consolidation since 2020?	Regional Alliance Target or Individual Target? Drop down list	2020 Target	Actual 2020 GPCD	Did Supplier Achieve Targeted Reduction for 2020?	Only for suppliers that did not meet the Target in 2020 See DWR NOTES below.	
					Actual 2025 GPCD (From SB X7-7 Compliance Form)	Did Supplier meet the 2020 Target in 2025?
No	Individual Target	758	546	Yes		NA

DWR NOTES:
Suppliers calculating a 2025 GPCD will need to complete and submit SB X 7-7 Compliance Tables to verify the use of SB X7-7 Methodologies.
Suppliers that were part of a merger or consolidation since 2020 see Chapter 5 and Appendix P for guidance.

NOTES:

10608.40 Urban water retail suppliers shall report to the department on their progress in meeting their urban water use targets as part of their urban water management plans submitted pursuant to Section 10631.

Submittal Table 6-2 Retail: Wastewater Collected Within Service Area Water Code Section 10633(a)				
<input type="checkbox"/>		Check the box if there is no wastewater collection system. Proceed to the next table.		
		Percentage of 2025 service area served by wastewater collection system (OPTIONAL)		
		Percentage of 2025 service area population served by wastewater collection system (OPTIONAL)		
Wastewater Collection			Recipient of Collected Wastewater	
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? OPTIONAL Drop Down List	Volume of Wastewater Collected from UWMP Service Area 2025 (AF)	Name of Wastewater Treatment Plant (WWTP) and Place ID Number Drop down list	Is WWTP Located Within UWMP Area? Drop Down List
Add additional rows as needed				
City of Redding	Estimated	874	Stillwater WWTP Reclamation, Place ID 258677	No
Shasta County CSA#8	Estimated	78	Palo Cedro WWTF, Place ID 247464	No
Shasta College	Estimated	30	Shasta College Sewage Disposal Pond, Place ID 256606	Yes
Total Wastewater Received from UWMP Service Area in 2025:		982		
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.				
Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.				
NOTES: The City of Redding's Stillwater WWTP is approximately five miles south and downhill from BVWD's service area and the Palo Cedro WWTF is approximately 2.5 miles south of BVWD's service area.				

CWC 10633(a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.

Submittal Table 6-3 Retail: Wastewater Treatment and Outcomes Within UWMP Service Area
Water Code Section 10633(b)

<input type="checkbox"/> Check the box if no wastewater is treated or disposed of within the UWMP service area. Proceed to the next table.														
Wastewater Treatment Plant Name and Place ID Number Drop down list	Does This Plant Treat Wastewater Generated Outside the UWMP Service Area? (OPTIONAL) Drop down list	2025 Volume of Wastewater Received from UWMP Service Area (As Reported in Submittal Table 6-2 R) (AF)	Total 2025 Volume of Water Treated (AF)	2025 Outcomes of Treated Wastewater										
				Water Recycled Within UWMP Service Area (enter data as applicable)		Water Recycled Outside of UWMP Service Area (enter data as applicable)		Effluent Discharge that is not a Permitted Recycled Water Use (enter data as applicable)		Required Discharge for Instream Flow (enter data as applicable)		Delivered to Another Entity for Additional Treatment (enter data as applicable)		
				Treatment Level Drop down list	Volume (AF)	Treatment Level Drop down list	Volume (AF)	Treatment Level Drop down list	Volume (AF)	Treatment Level Drop down list	Volume (AF)	Treatment Level Drop down list	Volume (AF)	Name of other entity
Add additional rows as needed														
Shasta College Sewage Disposal Pond, Place ID 256606	No	30			-		-	Secondary, Undisinfected	30					
Stillwater WWTP Reclamation, Place ID 258677	Yes	874								Tertiary	874			
Palo Cedro WWTF, Place ID 247464	Yes	84						Secondary, Undisinfected	84					
Total		987	-		0		0		113		874		0	
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. IPR: Indirect Potable Reuse would have the treatment level of its end use requirement in the Level of Treatment drop-down. Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.														
NOTES:														

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier...and shall include all of the following:
(b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area										
Water Code Section 10633 (c),(d),(e)										
<input type="checkbox"/>		Check box if recycled water is not used and is not planned for use within the service area of the supplier. The supplier will only complete the column on "Potential Recycled Water Use" and submit an accompanying narrative on the feasibility of that potential recycled water use.								
Name(s) of Facility/ies Producing (Treating) the Recycled Water (OPTIONAL) :										
Name of Supplier Operating the Recycled Water Distribution System (OPTIONAL) :										
Volume of Supplemental Water Added in 2025 (OPTIONAL) :										
Source of 2025 Supplemental Water (OPTIONAL) :										
Use Type Drop down list	Potable or Non-Potable (after treatment if treated) (OPTIONAL) Drop down list	Additional Information (as needed)	2025 (AF)	2030 (AF)	2035 (AF)	2040 (AF)	2045 (AF)	2050 (AF)	Potential Recycled Water Use	
									Volume	Narrative page number (OPTIONAL)
Add additional rows as needed										
									0	n/a
Subtotal Potable			0	0	0	0	0	0	0	
Subtotal Non-Potable			0	0	0	0	0	0	0	
Total			0	0	0	0	0	0	0	0
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table. Potential recycled water use: a description of the feasibility of these uses must be included in the narrative. Multiple Producers: If you have multiple recycled water producers, submit a separate table for each.										
NOTES:										

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier... and shall include...
- (c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use
 - (d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.
 - (e) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.

Submittal Table 6-5 Retail: 2020 UWMP Recycled Water Use Projection Compared to 2025 Actual Water Code Section 10633(e)		
<input type="checkbox"/>	Check the box if recycled water was not used in 2025 nor previously projected for use in 2020. Proceed to the next table.	
Use Type Drop Down list	2020 Projection for 2025 (AF)	2025 Actual Use (AF)
Add additional rows as needed		
Total	0	0
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure reported in Submittal Table 2-3 Additional Guidance: See Appendix M, Section M.21 for detailed guidance on this table.		
NOTES:		

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following: (e) ...a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision

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Submittal Table 6-6 Retail: Methods to Encourage Future Recycled Water Use Water Code Section 10633(f)			
<input checked="" type="checkbox"/>	Check the box if the Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
60	Provide page location of narrative in the UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use (AF)
Add additional rows as needed			
Total (AF)			0
Unit Conversion to AF			0
DWR NOTES:			
Units of measure (AF, CCF, MG) MUST remain consistent with units reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3.			
The unit conversion to Acre Feet addresses the Water Code's requirement that this value be provided in acre-feet.			
NOTES: No recycled water is available for use within the District's water service boundaries. The District has investigated recycled water use and has not been able to identify any feasible projects.			

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

(f) a description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of **acre feet** of recycled water used per year.

Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs Water Code Section 10631(f)							
<input type="checkbox"/>		Check the box if there are no expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Proceed to the next table.					
<input type="checkbox"/>		Check the box if some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.					
		Provide page location of narrative in the UWMP					
Name of Future Projects or Programs	Joint Project with other suppliers?		Additional Description (as needed)	Potable or Non-Potable (after treatment if treated) (OPTIONAL) Drop Down list	Planned Implementation Year	Planned for Use in Year Type Drop Down List	Expected Increase in Water Supply to Supplier (This may be a range) (AF)
	Drop Down List (yes/no)	If Yes, Supplier Name					
Add additional rows as needed							
Groundwater Wells 7 and 8	No		Construction of additional groundwater wells including iron and manganese treatment and chlorination	Potable	Within the next 5 to 10 years	All Year Types	Approximately 1,000 AF per new well
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure reported in Submittal Table 2-3.							
NOTES:							

10631 (f) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use, as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in normal and single-dry water years and for a period of drought lasting five consecutive water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

Submittal Table 6-8 Retail: Water Supplies — Actual Water Code Section 10631(b)				
Water Supply	Additional Description (as needed)	2025		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool		Potable or Non-Potable (after treatment if treated) (OPTIONAL) Drop Down list	Actual Volume (AF)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (AF)
Add additional rows as needed				
Surface water (not desalinated)	CVP Water Service Contract supply pumped from the Sacramento River	Potable	6,636	24,578
Surface water (not desalinated)	ACID Long-term transfer supply pumped from the Sacramento River	Potable	1,800	1,800
Groundwater (not desalinated)	Wells are located in the Enterprise Sub-basin of the Redding Groundwater Basin	Potable	385	2,660
Subtotal Potable			8,821	29,038
Subtotal Non-Potable			0	0
Total			8,821	29,038
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table identifies the unit of measure selected in Submittal Table 2-3. Total Entitlement: e.g. Water Right, Groundwater Allocation, Contracted Amount.				
NOTES:				

10631. A plan shall be adopted in accordance with this chapter that shall do all of the following... (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a), providing supporting and related information...

Submittal Table 6-9 Retail: Water Supplies — Projected Water Code Section 10631 (b)												
Water Supply	Additional Detail on Water Supply	Potable or Non-Potable (after treatment if treated) (OPTIONAL) Drop Down list	Projected Water Supply (Report to the Extent Practicable)									
			2030		2035		2040		2045		2050 (opt)	
			Reasonably Available Volume (AF)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (AF)	Reasonably Available Volume (AF)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (AF)	Reasonably Available Volume (AF)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (AF)	Reasonably Available Volume (AF)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (AF)	Reasonably Available Volume (AF)	Total Entitlement (OPTIONAL) See 'DWR Notes' below (AF)
Add additional rows as needed												
Surface water (not desalinated)	CVP Water Service Contract supply pumped from the Sacramento River	Potable	18,430		18,430		18,430		18,430		18,430	
Surface water (not desalinated)	ACID Long-term transfer supply pumped from the Sacramento River	Potable	1,800		1,800		1,800		0		0	
Groundwater (not desalinated)	Wells are located in the Enterprise Sub-basin of the Redding Groundwater Basis	Potable	2,660		2,660		3,660		3,660		4,660	
Subtotal Potable			22,890	0	22,890	0	23,890	0	22,090	0	23,090	0
Subtotal Non-Potable			0	0	0	0	0	0	0	0	0	0
Total			22,890	0	22,890	0	23,890	0	22,090	0	23,090	0
DWR NOTES:												
Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.												
Total Entitlement: e.g. Water Right, Groundwater Allocation, Contracted Amount.												
NOTES: The "Reasonably Available Volumes" reflect a 25% reduction in available surface water supplies due to reduced water supply availability during dry years. The amount of groundwater available in 2040 and beyond anticipates the construction of new groundwater wells by 2040 and 2050, with each new well capable of producing an additional 1,000 AF of water annually. The ACID Long-term Transfer agreement terminates in 2045.												

10631. A plan shall be adopted in accordance with this chapter that shall do all of the following... (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a), providing supporting and related information, including all of the following

Optional Submittal Table O-1A: Recommended Energy Reporting - SINGLE DELIVERY PRODUCT - WATER SUPPLY PROCESS APPROACH

Water Delivery Product drop down list (If delivering more than one type of product recommend using Table O-1C)	Retail Potable Deliveries	Only for Water Delivery Products Under the Urban Water Supplier's Operational Control								
Start Date of Reporting Period	1/1/2025	Water Management Process						Non-Consequential Hydropower (if applicable)		
End Date of Reporting Period	13/31/2025									
Is upstream embedded energy included in the values reported?	No									
		Units for Water Volume	Extract and Divert	Place into Storage	Conveyance	Treatment	Distribution	Total Utility See DWR NOTES	Hydropower	Net Utility
Volume of Water Entering Process		AF	8,875			8,052	8,052	8,875		8,875
Energy Consumed (kWh)		N/A	3,956,664			227,047	945,948	5,129,659		5,129,659
Energy Intensity (kWh/vol. converted to MG)		N/A	1,368	0	0	87	361	1,774	0	1,774

DWR NOTES: Total Utility:The volume of water entered in the "Total Utility" column should equal the volume of water entering the distribution system (excluding recycled water); in most cases, this is the total volume calculated in UWMP Table 4-1: 2025 Actual Total Uses for Potable and Non-Potable Water. Note if recycled water is included in your Submittal Table 4-1, you must exclude it from your volume in this table.

Quantity of Self-Generated Renewable Energy

1,257,270 kWh

Data Quality (Estimate, Metered Data, Combination of Estimates and Metered Data)

Metered Data

Data Quality Narrative:

Data was obtained from the District's energy providers (PG&E and Redding Electric Utility) and from the Western Area Power Administration (WAPA) for energy used to pump water from the Sacramento River along with meter readings from the District's solar generation facilities.

Narrative:

Surface water is pumped from the Sacramento River using WAPA power. It then flows through the Water Treatment Plant into the distribution system (without being repumped). Well water is similarly pumped out of the ground through treatment facilities into the distribution system (without being repumped). Distribution system pumping boosts the water pressure into pressure zones that are at a higher location than the zones that the surface water and well water are located within. The District has four solar power generation systems. The largest system delivers energy into PG&E's electrical distribution system and the District receives credit for the value of the energy produced that is used to offset energy bills at the District's wells, pump stations and main office. The other three systems are net metering facilities that offset REU energy used on a monthly basis for one distribution system pump station, a recycle pump station within the water treatment plant, and the third offsets energy used at the District's Water Treatment Plant.

NOTES: Solar generation offsets approximately 25% of the District's total energy use and approximately 86% of all energy use other than the initial pumping from the Sacramento River.

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

- (1) An estimate of the amount of energy used to extract or divert water supplies.
- (2) An estimate of the amount of energy used to convey water supplies to the water treatment plants or distribution systems.
- (3) An estimate of the amount of energy used to treat water supplies.
- (4) An estimate of the amount of energy used to distribute water supplies through its distribution systems.
- (5) An estimate of the amount of energy used for treated water supplies in comparison to the amount used for nontreated water supplies.
- (6) An estimate of the amount of energy used to place water into or withdraw from storage.
- (7) Any other energy-related information the urban water supplier deems appropriate.

10631.2 (b) The Department shall include in its guidance for the preparation of urban water management plans a methodology for the voluntary calculation or estimation of the energy intensity of urban water systems.

Optional Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment)

Year Type	Base Year If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2024-2025, use 2025	Available Supplies if Year Type Repeats	
		<input type="checkbox"/>	Check the box if quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location: [insert location from UWMP]
		Quantification of available supplies is provided in this table as either volume only, percent only, or both.	
		Volume Available (AF)	% of Average Supply
Average Year	2023	29,038	
Single-Dry Year	2021	7,310	
Consecutive Dry Years 1st Year	2020	18,549	
Consecutive Dry Years 2nd Year	2021	7,310	
Consecutive Dry Years 3rd Year	2022	4,294	
Consecutive Dry Years 4th Year	2020	18,549	
Consecutive Dry Years 5th Year	2021	7,044	
<p>DWR NOTES: Supplier may use multiple versions of Submittal Table 7-1 R if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If a Supplier uses multiple versions of Submittal Table 7-1 R, in the "Note" section of each submittal table, state that multiple versions of Submittal Table 7-1 R are being used and identify the particular water source that is being reported in each submittal table.</p> <p>Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3. This table reports the units of measure reported in Submittal Table 2-3.</p>			
<p>NOTES: There is no one year that is an "average" year for the District. There are full CVP supply years and there are years with less than a full CVP supply. The year 2023 represents a full supply year.</p>			

Submittal Table 7-2 Retail: Normal Year Supply and Use Comparison Water Code Section 10635 (a)					
	2030 (AF)	2035 (AF)	2040 (AF)	2045 (AF)	2050 (AF)
Supply totals (autofill from Submittal Table 6-9 R)	22,890	22,890	23,890	22,090	23,090
Use totals (autofill from Submittal Table 4-2 R)	8,802	8,953	9,107	9,265	9,425
Surplus/(shortfall)	14,088	13,937	14,783	12,826	13,665
OPTIONAL Planned WSCP Actions					
WSCP - supply augmentation benefit					
WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)					
DWR NOTES : Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES: The supply totals in 2045 and 2050 reflect the expiration of the Long-Term Transfer Agreement with ACID in February of 2045.					

10635. (a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment **shall compare the total water supply sources available to the water supplier with the long-term total projected water use over the next 20 years, in five-year increments, for a normal**

Submittal Table 7-3 Retail: Single Dry Year Supply and Use Comparison Water Code Section 10635(a)					
	2030 (AF)	2035 (AF)	2040 (AF)	2045 (AF)	2050 (AF)
Supply totals	7,310	8,310	8,310	9,310	9,310
Use totals	8,828	9,005	9,185	9,368	9,556
Surplus/(shortfall)	(1,518)	(695)	(875)	(58)	(246)
OPTIONAL Planned WSCP Actions					
WSCP - supply augmentation benefit					
WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)					
DWR NOTES : Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES					

10635. (a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment **shall compare the total water supply sources available to the water supplier with the long-term total projected water use over the next 20 years, in five-year increments**, for a normal water year, a **single dry water year**, and a drought lasting five consecutive water years.

Submittal Table 7-4 Retail: Multiple Dry Years Supply and Use Comparison						
Water Code Section 10635(a)						
		2030 (AF)	2035 (AF)	2040 (AF)	2045 (AF)	2050 (AF)
First year	Supply totals	19,889	19,889	19,889	20,889	20,889
	Use totals	8,828	9,005	9,185	9,368	9,556
	Surplus/(shortfall)	11,061	10,884	10,704	11,521	11,333
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)						
Second year	Supply totals	7,150	7,150	7,150	8,150	8,150
	Use totals	8,863	9,041	9,221	9,406	9,594
	Surplus/(shortfall)	(1,713)	(1,891)	(2,071)	(1,256)	(1,444)
	OPTIONAL WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)						
Third year	Supply totals	4,600	4,600	4,600	5,600	5,600
	Use totals	8,899	9,077	9,258	9,444	9,632
	Surplus/(shortfall)	(4,299)	(4,477)	(4,658)	(3,844)	(4,032)
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)						
Fourth year	Supply totals	19,289	19,289	19,289	20,289	20,289
	Use totals	8,934	9,113	9,295	9,481	9,671
	Surplus/(shortfall)	10,355	10,176	9,994	10,808	10,618
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)						
Fifth year	Supply totals	6,250	7,250	7,250	8,250	8,250
	Use totals	8,970	9,150	9,333	9,519	9,710
	Surplus/(shortfall)	(2,720)	(1,900)	(2,083)	(1,269)	(1,460)
	OPTIONAL Planned WSCP Actions					
	WSCP - supply augmentation benefit					
	WSCP - use reduction savings benefit					
Revised Surplus/(shortfall)						
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.						
NOTES:						

10635. (a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the long-term total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water

Submittal Table 7-5 Retail: Five-Year Drought Risk Assessment Water Code Section 10635(b)(3)	
2026	Total
Total Water Use (AF)	8,690
Total Supplies (AF)	19,889
Surplus/Shortfall w/o WSCP Action	11,199
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (AF)	
WSCP - use reduction savings benefit (AF)	
Revised Surplus/(shortfall)	
2027	Total
Total Water Use (AF)	8,724
Total Supplies (AF)	7,150
Surplus/Shortfall w/o WSCP Action	(1,574)
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (AF)	
WSCP - use reduction savings benefit (AF)	
Revised Surplus/(shortfall)	
2028	Total
Total Water Use (AF)	8,759
Total Supplies (AF)	4,600
Surplus/Shortfall w/o WSCP Action	(4,159)
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (AF)	
WSCP - use reduction savings benefit (AF)	
Revised Surplus/(shortfall)	
2029	Total
Total Water Use (AF)	8,794
Total Supplies (AF)	19,289
Surplus/Shortfall w/o WSCP Action	10,495
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (AF)	
WSCP - use reduction savings benefit (AF)	
Revised Surplus/(shortfall)	
2030	Total
Total Water Use (AF)	8,829
Total Supplies (AF)	6,250
Surplus/Shortfall w/o WSCP Action	(2,579)
OPTIONAL Planned WSCP Actions (use reduction and supply augmentation)	
WSCP - supply augmentation benefit (AF)	
WSCP - use reduction savings benefit (AF)	
Revised Surplus/(shortfall)	
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.	
NOTES:	

10635 (b) Every urban water supplier shall include, as part of its urban water management plan, a **drought risk assessment** for its water service... The drought risk assessment shall include each of the following:

- (1) A description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts five consecutive water years, starting from the year following when the assessment is conducted.
- (2) A determination of the reliability of each source of supply under a variety of water shortage conditions. This may include a determination that a particular source of water supply is fully reliable under most, if not all, conditions.
- (3) A comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period.
- (4) Considerations of the historical drought hydrology, ...

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Submittal Table 8-1: Cross-reference for Standard vs Supplier Shortage Levels Water Code Section 10632(a)(3)(B)			
<input type="checkbox"/> Check the box if the Supplier uses the Standard six levels of water shortage. Proceed to the next table.			
Standard Shortage Levels	Percent Shortage Range	Suppliers Shortage Levels	Percent Shortage Range
1	Up to 10%		
2	Up to 20%		
3	Up to 30%		
4	Up to 40%		
5	Up to 50%		
6	>50%		
NOTES:			

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

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

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

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Submittal Table 8-2 Retail: Supply Augmentation and Other Actions Water Code Section 10632(a)(4)(A),(C) and (E)				
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)	
Add additional rows as needed				
2 and above	Transfers		up to 3,000 AF	Transfer quantities depend on availability and price.
2 and above	Other Actions (describe)		up to 3,000 AF	Run wells as needed
3 and above	Implement or Modify Drought Rate Structure or Surcharge		Varies	The usage level that the drought exceedence penalty will kick in at and the penalty charge will vary depending on the severity of the drought
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.				
NOTES:				

10632(a)(4) Shortage response actions that align with the defined shortage levels and include, at a minimum, all of the following:

(A) Locally appropriate supply augmentation actions.

(C) Locally appropriate operational changes.

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

Submittal Table 8-3 Retail: Demand Reduction Actions					
Water Code Section 10632(a)(4)(B), (D), and E					
Is the Supplier completing this table using the standard six levels? (yes/no)					
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEData online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
Add additional rows as needed					
1	Expand Public Information Campaign	0% to 10% for all of the Level 1 DRAs combined.			No
1	Landscape - Restrict or prohibit runoff from landscape irrigation	0% to 10% for all of the Level 1 DRAs combined.			Yes
1	Landscape - Limit landscape irrigation to specific times	0% to 10% for all of the Level 1 DRAs combined.			Yes
1	Other - Require automatic shut of hoses	0% to 10% for all of the Level 1 DRAs combined.			Yes
1	Other water feature or swimming pool restriction	0% to 10% for all of the Level 1 DRAs combined.		Must be equipped with a recirculation pump and be leakproof	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0% to 10% for all of the Level 1 DRAs combined.			Yes
1	Other - Prohibit use of potable water for washing hard surfaces	0% to 10% for all of the Level 1 DRAs combined.			Yes
2	Implement or Modify Drought Rate Structure or Surcharge	10% to 20% for all of the Level 2 DRAs combined.		May adopt penalty rates for usage above customers' allocations.	Yes
2	Landscape - Other landscape restriction or prohibition	10% to 20% for all of the Level 2 DRAs combined.		Adjust smart controllers to 90 to 95% of ET	No
2	CII - Lodging establishment must offer opt out of linen service	10% to 20% for all of the Level 2 DRAs combined.			No
2	CII - Restaurants may only serve water upon request	10% to 20% for all of the Level 2 DRAs combined.			No
3	Implement or Modify Drought Rate Structure or Surcharge	20% to 30% for all of the Level 3 DRAs combined.		May adopt penalty rates for usage above customers' allocations. If penalties were adopted at Sage 2, may adjust penalty rates or allocations above which the penalty rate applies.	Yes
3	Landscape - Other landscape restriction or prohibition	20% to 30% for all of the Level 3 DRAs combined.		Adjust smart controllers to 90 to 75% of ET	No
3	Decrease Line Flushing	20% to 30% for all of the Level 3 DRAs combined.			No
4	Implement or Modify Drought Rate Structure or Surcharge	30% to 40% for all of the Level 4 DRAs combined.		May adjust penalty rates or allocations above which the penalty rate applies.	Yes
4	Landscape - Other landscape restriction or prohibition	30% to 40% for all of the Level 4 DRAs combined.		Installation of new or landscaping is prohibited	Yes
4	Other water feature or swimming pool restriction	30% to 40% for all of the Level 4 DRAs combined.		Water for water features prohibited unless required to support aquatic life	Yes
4	Other	30% to 40% for all of the Level 4 DRAs combined.		New connections allowed but with water limited to PH&S needs	Yes
4	Landscape - Prohibit certain types of landscape irrigation	30% to 40% for all of the Level 4 DRAs combined.		Irrigation of street medians with potable water is prohibited	Yes
5	Implement or Modify Drought Rate Structure or Surcharge	40% to 50% for all of the Level 5 DRAs combined.		May adjust penalty rates or allocations above which the penalty rate applies.	Yes
5	Other water feature or swimming pool restriction	40% to 50% for all of the Level 5 DRAs combined.		Water use for ornamental ponds and fountains is prohibited	Yes
5	Landscape - Other landscape restriction or prohibition	40% to 50% for all of the Level 5 DRAs combined.			Yes
5	Other - Prohibit use of potable water for construction and dust control	40% to 50% for all of the Level 5 DRAs combined.			Yes
5	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	40% to 50% for all of the Level 5 DRAs combined.			Yes
5	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	40% to 50% for all of the Level 5 DRAs combined.		Within 24 hours	Yes
6	Implement or Modify Drought Rate Structure or Surcharge	50% to 60% for all of the Level 6 DRAs combined.		May adjust penalty rates or allocations above which the penalty rate applies.	Yes
6	Landscape - Prohibit all landscape irrigation	50% to 60% for all of the Level 6 DRAs combined.			Yes
6	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	50% to 60% for all of the Level 6 DRAs combined.		Immediately	Yes
6	Moratorium or Net Zero Demand Increase on New Connections	50% to 60% for all of the Level 6 DRAs combined.		Moratorium on commitments to provide service for new water service connections	No

DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2.3.

NOTES:

10632(a)(4) Shortage response actions that align with the defined shortage levels and include, at a minimum, all of the following:

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

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

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



**Submittal Table 10-1 Retail: Notification to Cities and Counties
Water Code Section 10621(b) and 10642**

City Name	60 Day Notice Drop Down (yes/no)	Notice of Public Hearing Drop Down (yes/no)
Add additional rows as needed		
City of Redding	Yes	Yes
City of Shasta Lake	Yes	Yes
County Name Drop Down List	60 Day Notice Drop Down (yes/no)	Notice of Public Hearing Drop Down (yes/no)
Add additional rows as needed		
Shasta County	Yes	Yes
NOTES:		

CWC 10621 (b) Notify at least 60 days prior to the public hearing any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.

CWC 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.

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SB X7-7 Table 0: Units of Measure Used in 2020 UWMP*
(select one from the drop down list)

Acre Feet

**The unit of measure must be consistent throughout the UWMP, as reported in Submittal Table 2-3.*

NOTES:

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SB X7-7 Table 2: Method for 2020 Population Estimate	
Method Used to Determine 2020 Population (may check more than one)	
<input type="checkbox"/>	1. Department of Finance (DOF) or American Community Survey (ACS)
<input checked="" type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES:	

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SB X7-7 Table 3: 2020 Service Area Population	
2020 Compliance Year Population	
2020	18,378

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SB X7-7 Table 4: 2020 Gross Water Use

Compliance Year 2020	2020 Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	2020 Deductions					2020 Gross Water Use
		Exported Water *	Change in Dist. System Storage* (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use*	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	
	11,268			-		-	11,268

* Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES: Agricultural water use is included in the totals.

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SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment

Complete one table for each source.

Name of Source		Sacramento River	
This water source is (check one) :			
<input type="checkbox"/>	The supplier's own water source		
<input checked="" type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	11,046	-	11,046
¹ Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES: The District has a Water Service Contract with the United States Bureau of Reclamation for up to 24,578 AFY and a long-term transfer agreement with the Anderson Cottonwood Irrigation District for 1,536 AFY or 1,152 AFY (depending on the water-year type).			

SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s) Meter Error Adjustment

Complete one table for each source.

Name of Source		Groundwater Wells	
This water source is (check one) :			
<input checked="" type="checkbox"/>	The supplier's own water source		
<input type="checkbox"/>	A purchased or imported source		
Compliance Year 2020	Volume Entering Distribution System ¹	Meter Error Adjustment ² <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
	222		222
¹ Units of measure (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3. ² Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document			
NOTES: The District currently has five groundwater wells.			

SB X7-7 Table 5: 2020 Gallons Per Capita Per Day (GPCD)		
2020 Gross Water <i>Fm SB X7-7 Table 4</i>	2020 Population <i>Fm</i> <i>SB X7-7 Table 3</i>	2020 GPCD
11,268	18,378	546
NOTES:		

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SB X7-7 Table 9: 2020 Compliance

Actual 2020 GPCD ¹	Optional Adjustments to 2020 GPCD					2020 Confirmed Target GPCD ^{1,2}	Did Supplier Achieve Targeted Reduction for 2020?
	Enter "0" if Adjustment Not Used			TOTAL Adjustments ¹	Adjusted 2020 GPCD ¹ <i>(Adjusted if applicable)</i>		
	Extraordinary Events ¹	Weather Normalization ¹	Economic Adjustment ¹				
546	-	-	-	-	546	758	YES

¹ All values are reported in GPCD

² **2020 Confirmed Target GPCD** is taken from the Supplier's SB X7-7 Verification Form Table SB X7-7, 7-F.

NOTES:

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

(select one from the drop down list)

Acre Feet

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

NOTES:

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SB X7-7 Table-1: Baseline Period Ranges

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	14,483	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period ^{1, 2}	10	Years
	Year beginning baseline period range	1996	
	Year ending baseline period range ³	2005	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2003	
	Year ending baseline period range ⁴	2007	

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.

NOTES:

SB X7-7 Table 2: Method for Population Estimates

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

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SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	1996	14,595
Year 2	1997	14,811
Year 3	1998	15,027
Year 4	1999	15,243
Year 5	2000	15,459
Year 6	2001	15,675
Year 7	2002	15,891
Year 8	2003	16,107
Year 9	2004	16,323
Year 10	2005	16,539
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2003	16,107
Year 2	2004	16,323
Year 3	2005	16,539
Year 4	2006	16,755
Year 5	2007	16,971
2015 Compliance Year Population		
2015		18,426
NOTES:		

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

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	1996	14,817			-		-	14,817
Year 2	1997	16,317			-		-	16,317
Year 3	1998	13,795			-		-	13,795
Year 4	1999	16,371			-		-	16,371
Year 5	2000	14,827			-		-	14,827
Year 6	2001	17,472			-		-	17,472
Year 7	2002	19,384			-		-	19,384
Year 8	2003	18,126			-		-	18,126
Year 9	2004	18,817			-		-	18,817
Year 10	2005	15,413			-		-	15,413
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 year baseline average gross water use							16,534	
5 Year Baseline - Gross Water Use								
Year 1	2003	14,827			-		-	14,827
Year 2	2004	17,472			-		-	17,472
Year 3	2005	19,384			-		-	19,384
Year 4	2006	18,126			-		-	18,126
Year 5	2007	18,817			-		-	18,817
5 year baseline average gross water use							17,725	
2015 Compliance Year - Gross Water Use								
2015		6,913	-		-		-	6,913
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								
NOTES:								

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

Complete one table for each source.

Name of Source		CVP Water - Sacramento River		
This water source is: USBR Contract Water				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1996	14,305.00		14,305
Year 2	1997	14,623.00		14,623
Year 3	1998	12,169.00		12,169
Year 4	1999	15,326.00		15,326
Year 5	2000	13,769.00		13,769
Year 6	2001	16,211.00		16,211
Year 7	2002	18,064.00		18,064
Year 8	2003	12,070.00		12,070
Year 9	2004	12,665.00		12,665
Year 10	2005	8,896.00		8,896
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
5 Year Baseline - Water into Distribution System				
Year 1	2003	12,070.00		12,070
Year 2	2004	12,665.00		12,665
Year 3	2005	8,896.00		8,896
Year 4	2006	10,237		10,237
Year 5	2007	10,462		10,462
2015 Compliance Year - Water into Distribution System				
2015		2,478		2,478
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES: Meter error adjustments are included in calculations				

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

Name of Source		Wells 1,2,3,4,6		
This water source is: Groundwater				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1996	497.00		497
Year 2	1997	1,193.00		1,193
Year 3	1998	1,125.00		1,125
Year 4	1999	467.00		467
Year 5	2000	480.00		480
Year 6	2001	802.00		802
Year 7	2002	741.00		741
Year 8	2003	619.70		620
Year 9	2004	752.00		752
Year 10	2005	1,600.00		1,600
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0
5 Year Baseline - Water into Distribution System				
Year 1	2003	619.70		620
Year 2	2004	752.00		752
Year 3	2005	1,600.00		1,600
Year 4	2006	1,296.00		1,296
Year 5	2007	177.00		177
2015 Compliance Year - Water into Distribution System				
2015		1,535		1,535
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				

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

Name of Source		Interties and Transfers		
This water source is: Surface Water purchased or imported				
<input type="checkbox"/>	The supplier's own water source			
<input checked="" type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,996	15		15
Year 2	1,997	501.45		501
Year 3	1,998	500.53		501
Year 4	1,999	578		578
Year 5	2,000	578		578
Year 6	2,001	459.4		459
Year 7	2,002	578.78		579
Year 8	2,003	5436		5,436
Year 9	2,004	5399.78		5,400
Year 10	2,005	4916.9		4,917
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	5436		5,436
Year 2	2,004	5399.78		5,400
Year 3	2,005	4916.9		4,917
Year 4	2,006	5339		5,339
Year 5	2,007	5007		5,007
2015 Compliance Year - Water into Distribution System				
2015		2,900		2,900
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				

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

Name of Source Source 4

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System
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10 to 15 Year Baseline - Water into Distribution System

Year 1	1,996		0
Year 2	1,997		0
Year 3	1,998		0
Year 4	1,999		0
Year 5	2,000		0
Year 6	2,001		0
Year 7	2,002		0
Year 8	2,003		0
Year 9	2,004		0
Year 10	2,005		0
Year 11	-		0
Year 12	-		0
Year 13	-		0
Year 14	-		0
Year 15	-		0

5 Year Baseline - Water into Distribution System

Year 1	2,003		0
Year 2	2,004		0
Year 3	2,005		0
Year 4	2,006		0
Year 5	2,007		0

2015 Compliance Year - Water into Distribution System

2015			0
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** Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document*

NOTES:



SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction (For use only by agencies that are deducting indirect recycled water)

Baseline Year <i>Fm SB X7-7 Table 3</i>	Surface Reservoir Augmentation					Groundwater Recharge			Total Deductible Volume of Indirect Recycled Water Entering the Distribution System
	Volume Discharged from Reservoir for Distribution System Delivery	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/ Treatment Loss	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility*	Transmission/ Treatment Losses	Recycled Volume Entering Distribution System from Groundwater Recharge	
10-15 Year Baseline - Indirect Recycled Water Use									
Year 1	1996			-	-			-	-
Year 2	1997			-	-			-	-
Year 3	1998			-	-			-	-
Year 4	1999			-	-			-	-
Year 5	2000			-	-			-	-
Year 6	2001			-	-			-	-
Year 7	2002			-	-			-	-
Year 8	2003			-	-			-	-
Year 9	2004			-	-			-	-
Year 10	2005			-	-			-	-
Year 11	0			-	-			-	-
Year 12	0			-	-			-	-
Year 13	0			-	-			-	-
Year 14	0			-	-			-	-
Year 15	0			-	-			-	-
5 Year Baseline - Indirect Recycled Water Use									
Year 1	2003			-	-			-	-
Year 2	2004			-	-			-	-
Year 3	2005			-	-			-	-
Year 4	2006			-	-			-	-
Year 5	2007			-	-			-	-
2015 Compliance - Indirect Recycled Water Use									
2015			-		-			-	-
*Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.									
NOTES:									

SB X7-7 Table 4-C: Process Water Deduction Eligibility

(For use only by agencies that are deducting process water) Choose Only One

<input type="checkbox"/>	Criteria 1- Industrial water use is equal to or greater than 12% of gross water use. Complete SB X7-7 Table 4-C.1
<input type="checkbox"/>	Criteria 2 - Industrial water use is equal to or greater than 15 GPCD. Complete SB X7-7 Table 4-C.2
<input type="checkbox"/>	Criteria 3 - Non-industrial use is equal to or less than 120 GPCD. Complete SB X7-7 Table 4-C.3
<input type="checkbox"/>	Criteria 4 - Disadvantaged Community. Complete SB x7-7 Table 4-C.4

NOTES:

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SB X7-7 Table 4-C.1: Process Water Deduction Eligibility

Criteria 1

Industrial water use is equal to or greater than 12% of gross water use

Baseline Year <i>Fm SB X7-7 Table 3</i>	Gross Water Use Without Process Water Deduction	Industrial Water Use	Percent Industrial Water	Eligible for Exclusion Y/N
10 to 15 Year Baseline - Process Water Deduction Eligibility				
Year 1	1996	14,817	0%	NO
Year 2	1997	16,317	0%	NO
Year 3	1998	13,795	0%	NO
Year 4	1999	16,371	0%	NO
Year 5	2000	14,827	0%	NO
Year 6	2001	17,472	0%	NO
Year 7	2002	19,384	0%	NO
Year 8	2003	18,126	0%	NO
Year 9	2004	18,817	0%	NO
Year 10	2005	15,413	0%	NO
Year 11	0	-		NO
Year 12	0	-		NO
Year 13	0	-		NO
Year 14	0	-		NO
Year 15	0	-		NO
5 Year Baseline - Process Water Deduction Eligibility				
Year 1	2003	14,827	0%	NO
Year 2	2004	17,472	0%	NO
Year 3	2005	19,384	0%	NO
Year 4	2006	18,126	0%	NO
Year 5	2007	18,817	0%	NO
2015 Compliance Year - Process Water Deduction Eligibility				
2015		6,913	0%	NO

NOTES:

SB X7-7 Table 4-C.2: Process Water Deduction Eligibility

Criteria 2

Industrial water use is equal to or greater than 15 GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Water Use	Population	Industrial GPCD	Eligible for Exclusion Y/N
10 to 15 Year Baseline - Process Water Deduction Eligibility				
Year 1	1996		14,595	- NO
Year 2	1997		14,811	- NO
Year 3	1998		15,027	- NO
Year 4	1999		15,243	- NO
Year 5	2000		15,459	- NO
Year 6	2001		15,675	- NO
Year 7	2002		15,891	- NO
Year 8	2003		16,107	- NO
Year 9	2004		16,323	- NO
Year 10	2005		16,539	- NO
<i>Year 11</i>	0		-	NO
<i>Year 12</i>	0		-	NO
<i>Year 13</i>	0		-	NO
<i>Year 14</i>	0		-	NO
<i>Year 15</i>	0		-	NO
5 Year Baseline - Process Water Deduction Eligibility				
Year 1	2003		16,107	- NO
Year 2	2004		16,323	- NO
Year 3	2005		16,539	- NO
Year 4	2006		16,755	- NO
Year 5	2007		16,971	- NO
2015 Compliance Year - Process Water Deduction Eligibility				
2015			18,426	- NO

NOTES:

SB X7-7 Table 4-C.3: Process Water Deduction Eligibility

Criteria 3

Non-industrial use is equal to or less than 120 GPCD

Baseline Year <i>Fm SB X7-7 Table 3</i>	Gross Water Use Without Process Water Deduction <i>Fm SB X7-7 Table 4</i>	Industrial Water Use	Non-industrial Water Use	Population <i>Fm SB X7-7 Table 3</i>	Non-Industrial GPCD	Eligible for Exclusion Y/N
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10 to 15 Year Baseline - Process Water Deduction Eligibility

Year 1	1996	14,817		14,817	14,595	906	NO
Year 2	1997	16,317		16,317	14,811	984	NO
Year 3	1998	13,795		13,795	15,027	820	NO
Year 4	1999	16,371		16,371	15,243	959	NO
Year 5	2000	14,827		14,827	15,459	856	NO
Year 6	2001	17,472		17,472	15,675	995	NO
Year 7	2002	19,384		19,384	15,891	1,089	NO
Year 8	2003	18,126		18,126	16,107	1,005	NO
Year 9	2004	18,817		18,817	16,323	1,029	NO
Year 10	2005	15,413		15,413	16,539	832	NO
<i>Year 11</i>	0	-		-	-		NO
<i>Year 12</i>	0	-		-	-		NO
<i>Year 13</i>	0	-		-	-		NO
<i>Year 14</i>	0	-		-	-		NO
<i>Year 15</i>	0	-		-	-		NO

5 Year Baseline - Process Water Deduction Eligibility

Year 1	2003	14,827		14,827	16,107	822	NO
Year 2	2004	17,472		17,472	16,323	956	NO
Year 3	2005	19,384		19,384	16,539	1,046	NO
Year 4	2006	18,126		18,126	16,755	966	NO
Year 5	2007	18,817		18,817	16,971	990	NO

2015 Compliance Year - Process Water Deduction Eligibility

2015		6,913		6,913	18,426	335	NO
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NOTES:

SB X7-7 Table 4-C.4: Process Water Deduction Eligibility

Criteria 4

Disadvantaged Community. A “Disadvantaged Community” (DAC) is a community with a median household income less than 80 percent of the statewide average.

SELECT ONE

"Disadvantaged Community" status was determined using one of the methods listed below:

- 1. IRWM DAC Mapping tool**
http://www.water.ca.gov/irwm/grants/resources_dac.cfm

If using the IRWM DAC Mapping Tool, include a screen shot from the tool showing that the service area is considered a DAC.

- 2. 2010 Median Income**

California Median Household Income		Service Area Median Household Income	Percentage of Statewide Average	Eligible for Exclusion? Y/N
2015 Compliance Year - Process Water Deduction Eligibility				
2010	\$60,883		0%	YES

NOTES:



SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 1				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 2			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer
10 to 15 Year Baseline - Process Water Deduction					
Year 1	1996				-
Year 2	1997				-
Year 3	1998				-
Year 4	1999				-
Year 5	2000				-
Year 6	2001				-
Year 7	2002				-
Year 8	2003				-
Year 9	2004				-
Year 10	2005				-
<i>Year 11</i>	0				-
<i>Year 12</i>	0				-
<i>Year 13</i>	0				-
<i>Year 14</i>	0				-
<i>Year 15</i>	0				-
5 Year Baseline - Process Water Deduction					
Year 1	2003				-
Year 2	2004				-
Year 3	2005				-
Year 4	2006				-
Year 5	2007				-
2015 Compliance Year - Process Water Deduction					
2015					-

NOTES:

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 3				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 4				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 5				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 6				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 7				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 8				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 9				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

SB X7-7 Table 4-D: Process Water Deduction - Volume

Complete a

separate table for each industrial customer with a process water exclusion

Name of Industrial Customer		Industrial Customer 10				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Industrial Customer's Total Water Use	Total Volume Supplied by Water Agency	% of Water Supplied by Water Agency	Customer's Total Process Water Use	Volume of Process Water Eligible for Exclusion for this Customer	
10 to 15 Year Baseline - Process Water Deduction						
Year 1	1996				-	
Year 2	1997				-	
Year 3	1998				-	
Year 4	1999				-	
Year 5	2000				-	
Year 6	2001				-	
Year 7	2002				-	
Year 8	2003				-	
Year 9	2004				-	
Year 10	2005				-	
<i>Year 11</i>	0				-	
<i>Year 12</i>	0				-	
<i>Year 13</i>	0				-	
<i>Year 14</i>	0				-	
<i>Year 15</i>	0				-	
5 Year Baseline - Process Water Deduction						
Year 1	2003				-	
Year 2	2004				-	
Year 3	2005				-	
Year 4	2006				-	
Year 5	2007				-	
2015 Compliance Year - Process Water Deduction						
2015					-	
NOTES:						

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

Baseline Year <i>Fm SB X7-7 Table 3</i>	Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)	
10 to 15 Year Baseline GPCD				
Year 1	1996	14,595	14,817	906
Year 2	1997	14,811	16,317	984
Year 3	1998	15,027	13,795	820
Year 4	1999	15,243	16,371	959
Year 5	2000	15,459	14,827	856
Year 6	2001	15,675	17,472	995
Year 7	2002	15,891	19,384	1,089
Year 8	2003	16,107	18,126	1,005
Year 9	2004	16,323	18,817	1,029
Year 10	2005	16,539	15,413	832
<i>Year 11</i>	0	-	-	
<i>Year 12</i>	0	-	-	
<i>Year 13</i>	0	-	-	
<i>Year 14</i>	0	-	-	
<i>Year 15</i>	0	-	-	
10-15 Year Average Baseline GPCD			947	
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use	
Year 1	2003	16,107	14,827	822
Year 2	2004	16,323	17,472	956
Year 3	2005	16,539	19,384	1,046
Year 4	2006	16,755	18,126	966
Year 5	2007	16,971	18,817	990
5 Year Average Baseline GPCD			956	
2015 Compliance Year GPCD				
2015	18,426	6,913	335	
NOTES:				

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

10-15 Year Baseline GPCD	947
5 Year Baseline GPCD	956
2015 Compliance Year GPCD	335

NOTES:

DRAFT

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

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

NOTES:

DRAFT

SB X7-7 Table 7-A: Target Method 1
20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
947	758
NOTES:	

DRAFT

SB X7-7 Table 7-B: Target Method 2
Landscape Water Use

Target

Tables for Target Method 2 (SB X7-7 Tables 7-B, 7-C, and 7-D) are not included in the SB X7-7 Verification Form, but are still required for water suppliers using Target Method 2. These water suppliers should contact Gwen Huff at (916) 651-9672 or gwen.huff@water.ca.gov

DRAFT

SB X7-7 Table 7-C: Target Method 2

Target CII Water Use

Tables for Target Method 2 (SB X7-7 Tables 7-B, 7-C, and 7-D) are not included in the SB X7-7 Verification Form, but are still required for water suppliers using Target Method 2. These water suppliers should contact Gwen Huff at (916) 651-9672 or gwen.huff@water.ca.gov

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SB X7-7 Table 7-D: Target Method 2 Summary

Tables for Target Method 2 (SB X7-7 Tables 7-B, 7-C, and 7-D) are not included in the SB X7-7 Verification Form, but are still required for water suppliers using Target Method 2. These water suppliers should contact Gwen Huff at (916) 651-9672 or gwen.huff@water.ca.gov

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

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

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

5 Year Baseline GPCD From SB X7-7 Table 5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
956	908	758	758

¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD.

² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.

NOTES:

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SB X7-7 Table 8: 2015 Interim Target GPCD

Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	2015 Interim Target GPCD
758	947	853

NOTES:

DRAFT

SB X7-7 Table 9: 2015 Compliance

Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments <i>(in GPCD)</i>					2015 GPCD <i>(Adjusted if applicable)</i>	Did Supplier Achieve Targeted Reduction for 2015?
		Enter "0" if Adjustment Not Used			TOTAL Adjustments	Adjusted 2015 GPCD		
		Extraordinary Events	Weather Normalization	Economic Adjustment				
335	853	-	-	-	-	335	335	YES

NOTES:

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DRAFT

Appendix F AWWA Water Loss Worksheet



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association
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? Click to access definition
+ Click to add a comment

Water Audit Report for: Bella Vista Water District (CA4510014)
Reporting Year: 2021 1/2021 - 12/2021

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

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

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

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

WATER SUPPLIED

Volume from own sources:	+ ? 6	8,591.330	acre-ft/yr
Water imported:	+ ? 8	89.210	acre-ft/yr
Water exported:	+ ? n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:	acre-ft/yr
+ ? 4	<input type="text"/>	acre-ft/yr
+ ? 4	<input type="text"/>	acre-ft/yr
+ ?	<input type="text"/>	acre-ft/yr

WATER SUPPLIED: **8,680.540** acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	+ ? 7	7,999.790	acre-ft/yr
Billed unmetered:	+ ? 10	0.000	acre-ft/yr
Unbilled metered:	+ ? 10	7.640	acre-ft/yr
Unbilled unmetered:	+ ?	108.507	acre-ft/yr

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

AUTHORIZED CONSUMPTION: **8,115.937** acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:	acre-ft/yr
1.25%	<input type="text"/>	acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

Pcnt:	Value:	acre-ft/yr
0.25%	<input type="text"/>	acre-ft/yr

Pcnt:	Value:	acre-ft/yr
2.00%	<input type="text"/>	acre-ft/yr
0.25%	<input type="text"/>	acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

564.603 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **21.701** acre-ft/yr

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

Customer metering inaccuracies:	+ ? 6	163.417	acre-ft/yr
Systematic data handling errors:	+ ?	19.999	acre-ft/yr

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

Apparent Losses: **205.118** acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **359.485** acre-ft/yr

WATER LOSSES: **564.603** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: ? **680.750** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ? 9	242.0	miles
Number of <u>active</u> AND <u>inactive</u> service connections:	+ ? 10	6,451	
Service connection density:	?	27	conn./mile main

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

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

Average operating pressure: + ? 9 72.0 psi

COST DATA

Total annual cost of operating water system:	+ ? 10	\$5,292,098	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ? 9	\$0.57	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ? 7	\$220.08	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 71 out of 100 *****

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

PRIORITY AREAS FOR ATTENTION:

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

1: Volume from own sources

2: Billed metered

3: Customer metering inaccuracies



AWWA Free Water Audit Software: Worksheet

FWAS v6.0
American Water Works Association.
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Water Audit Report for: **Bella Vista Water District**
 Audit Year: **2022** | **Jan 01 2022 - Dec 31 2022** | **Calendar**

Click 'n' to add notes | Click 'g' to determine data validity grade | To edit water system info: [go to start page](#)

To access definitions, click the [input name](#) | All volumes to be entered as: ACRE-FEET PER YEAR

Water Supplied Error Adjustments

choose entry option:

VOS	Volume from Own Sources:	n	g	7	6,177.342	Acre-ft/Yr	n	g	10	0.00%	percent	
WI	Water Imported:	n	g	5	102.240	Acre-ft/Yr	n	g	4	0.00%	percent	VOSEA
WE	Water Exported:	n	g	6	0.210	Acre-ft/Yr	n	g	4	0.00%	percent	WIEA WEEA

WATER SUPPLIED: 6,279.372 Acre-ft/Yr

AUTHORIZED CONSUMPTION

BMAC	Billed Metered:	n	g	7	5,623.050	Acre-ft/Yr						
BUAC	Billed Unmetered:	n	g	10	0.000	Acre-ft/Yr						
UMAC	Unbilled Metered:	n	g	10	7.590	Acre-ft/Yr						
UUAC	Unbilled Unmetered:	n	g	3	14.058	Acre-ft/Yr						

Default option selected for Unbilled Unmetered, with automatic data grading of 3

AUTHORIZED CONSUMPTION: 5,644.698 Acre-ft/Yr

WATER LOSSES

634.674 Acre-ft/Yr

Apparent Losses

Default option selected for Systematic Data Handling Errors, with automatic data grading of 3

SDHE	Systematic Data Handling Errors:	n	g	3	14.058	Acre-ft/Yr						
CMI	Customer Metering Inaccuracies:	n	g	4	114.911	Acre-ft/Yr						
UC	Unauthorized Consumption:	n	g	3	14.058	Acre-ft/Yr						

Default option selected for Unauthorized Consumption, with automatic data grading of 3

Apparent Losses: 143.026 Acre-ft/Yr

Real Losses

Real Losses: 491.648 Acre-ft/Yr

WATER LOSSES: 634.674 Acre-ft/Yr

NON-REVENUE WATER

NON-REVENUE WATER: 656.322 Acre-ft/Yr

SYSTEM DATA

Lm	Length of mains:	n	g	10	239.5	miles	(including fire hydrant lead lengths)						
Nc	Number of service connections:	n	g	10	6,639		(active and inactive)						
	Service connection density:					28	conn./mile main						

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

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

Average Operating Pressure: n g 7 70.0 psi

COST DATA

CRUC	Customer Retail Unit Charge:	n	g	9	\$0.66	\$/100 cubic feet (ccf)						
VPC	Variable Production Cost:	n	g	9	\$265.56	\$/acre-ft						
							Total Annual Operating Cost					
							\$8,086,363			\$/yr (optional input)		

WATER AUDIT DATA VALIDITY TIER:

***** The Water Audit Data Validity Score is in Tier III (51-70). See Dashboard tab for additional outputs. *****

[go to dashboard](#)

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

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

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

- 1: Volume from Own Sources (VOS)
- 2: Billed Metered (BMAC)
- 3: Customer Metering Inaccuracies (CMI)

KEY PERFORMANCE INDICATOR TARGETS:

OPTIONAL: If targets exist for the operational performance indicators, they can be input below:

Unit Total Losses:		gal/conn/day
Unit Apparent Losses:		gal/conn/day
Unit Real Losses ¹ :		gal/conn/day
Unit Real Losses ² :		gal/mile/day

If entered above by user, targets will display on KPI gauges (see Dashboard)



AWWA Free Water Audit Software: Worksheet

FWAS v6.0
American Water Works Association
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Water Audit Report for: **Bella Vista Water District**
 Audit Year: **2023** **Jan 01 2023 - Dec 31 2023** **Calendar**

Click 'n' to add notes
 Click 'g' to determine data validity grade
 To edit water system info: [go to start page](#)

To access definitions, click the [input name](#)

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

[Water Supplied Error Adjustments](#)

WATER SUPPLIED

choose entry option:

VOS	Volume from Own Sources:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="7,649.070"/>	Acre-ft/Yr	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="percent"/>
WI	Water Imported:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="n/a"/>	<input type="text" value="0.000"/>	Acre-ft/Yr		
WE	Water Exported:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="n/a"/>	<input type="text" value="0.000"/>	Acre-ft/Yr		

VOSEA
WIEA
WEEA

WATER SUPPLIED: Acre-ft/Yr

AUTHORIZED CONSUMPTION

BMAC	Billed Metered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="6,851.951"/>	Acre-ft/Yr		
BUAC	Billed Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="n/a"/>	<input type="text" value="0.000"/>	Acre-ft/Yr		
UMAC	Unbilled Metered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="9"/>	<input type="text" value="8.200"/>	Acre-ft/Yr		
UUAC	Unbilled Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="17.130"/>	Acre-ft/Yr		

choose entry option:

Default option selected for Unbilled Unmetered, with automatic data grading of 3

AUTHORIZED CONSUMPTION: Acre-ft/Yr

WATER LOSSES

Acre-ft/Yr

Apparent Losses

Default option selected for Systematic Data Handling Errors, with automatic data grading of 3

choose entry option:

SDHE	Systematic Data Handling Errors:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="17.130"/>	Acre-ft/Yr	<input type="text" value="0.25%"/> <input type="text" value="default"/>
CMI	Customer Metering Inaccuracies:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="4"/>	<input type="text" value="140.003"/>	Acre-ft/Yr	<input type="text" value="2.00%"/> <input type="text" value="percent"/>
UC	Unauthorized Consumption:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="17.130"/>	Acre-ft/Yr	<input type="text" value="0.25%"/> <input type="text" value="default"/>

Default option selected for Unauthorized Consumption, with automatic data grading of 3

Apparent Losses: Acre-ft/Yr

Real Losses

Real Losses: Acre-ft/Yr

WATER LOSSES: Acre-ft/Yr

NON-REVENUE WATER

NON-REVENUE WATER: Acre-ft/Yr

SYSTEM DATA

Lm	Length of mains:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="239.6"/>	miles	(including fire hydrant lead lengths)
Nc	Number of service connections:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="6,639"/>		(active and inactive)
	Service connection density:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="28"/>	conn./mile main	

Are customer meters typically located at the curbstop/property line?

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

AOP Average Operating Pressure: psi

COST DATA

CRUC	Customer Retail Unit Charge:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="9"/>	<input type="text" value="\$0.72"/>	\$/100 cubic feet (ccf)	Total Annual Operating Cost
VPC	Variable Production Cost:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="9"/>	<input type="text" value="\$301.00"/>	\$/acre-ft	<input type="text" value="\$2,304,798"/> \$/yr (optional input)

WATER AUDIT DATA VALIDITY TIER:

***** The Water Audit Data Validity Score is in Tier IV (71-90). See Dashboard tab for additional outputs. *****

[go to dashboard](#)

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

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

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

- 1: Volume from Own Sources (VOS)
- 2: Customer Metering Inaccuracies (CMI)
- 3: Billed Metered (BMAC)

KEY PERFORMANCE INDICATOR TARGETS:

OPTIONAL: If targets exist for the operational performance indicators, they can be input below:

Unit Total Losses:	<input type="text"/>	gal/conn/day
Unit Apparent Losses:	<input type="text"/>	gal/conn/day
Unit Real Losses ^a :	<input type="text"/>	gal/conn/day
Unit Real Losses ^b :	<input type="text"/>	gal/mile/day

If entered above by user, targets will display on KPI gauges (see Dashboard)



AWWA Free Water Audit Software: Worksheet

FWAS v6.1
American Water Works Association.
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Water Audit Report for: **Bella Vista Water District**
 Audit Year: **2024** | **Jan 01 2024 - Dec 31 2024** | **Calendar**

Click 'n' to add notes | Click 'g' to determine data validity grade | To edit water system info: [go to start page](#)

To access definitions, click the [input name](#)

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

Water Supplied Error Adjustments

choose entry option:

VOS	Volume from Own Sources:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="8,874.706"/>	Acre-ft/Yr	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="percent"/>
WI	Water Imported:	<input type="text" value="n"/> <input type="text" value="g"/> n/a	<input type="text" value="0.000"/>	Acre-ft/Yr		
WE	Water Exported:	<input type="text" value="n"/> <input type="text" value="g"/> n/a	<input type="text" value="0.000"/>	Acre-ft/Yr		

VOSEA
WIEA
WEEA

WATER SUPPLIED: Acre-ft/Yr

AUTHORIZED CONSUMPTION

BMAC	Billed Metered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="8"/>	<input type="text" value="7,970.440"/>	Acre-ft/Yr		
BUAC	Billed Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> n/a	<input type="text" value="0.000"/>	Acre-ft/Yr		
UMAC	Unbilled Metered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="9"/>	<input type="text" value="2.161"/>	Acre-ft/Yr		
UUAC	Unbilled Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="19.926"/>	Acre-ft/Yr		

choose entry option:

Default option selected for Unbilled Unmetered, with automatic data grading of 3

AUTHORIZED CONSUMPTION: Acre-ft/Yr

WATER LOSSES

Acre-ft/Yr

Apparent Losses

Default option selected for Systematic Data Handling Errors, with automatic data grading of 3

SDHE	Systematic Data Handling Errors:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="19.926"/>	Acre-ft/Yr	<input type="text" value="0.25%"/> <input type="text" value="default"/>
CMI	Customer Metering Inaccuracies:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="4"/>	<input type="text" value="162.706"/>	Acre-ft/Yr	<input type="text" value="2.00%"/> <input type="text" value="percent"/>
UC	Unauthorized Consumption:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="19.926"/>	Acre-ft/Yr	<input type="text" value="0.25%"/> <input type="text" value="default"/>

under-registration

Default option selected for Unauthorized Consumption, with automatic data grading of 3

Apparent Losses: Acre-ft/Yr

Real Losses

Real Losses: Acre-ft/Yr

WATER LOSSES: Acre-ft/Yr

NON-REVENUE WATER

NON-REVENUE WATER: Acre-ft/Yr

SYSTEM DATA

Lm	Length of mains:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="236.6"/>	miles	(including fire hydrant lead lengths)
Nc	Number of service connections:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="6,753"/>		(active and inactive)
	Service connection density:		<input type="text" value="29"/>	conn./mile main	

Are customer meters typically located at the curbstops/property line?

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

AOP Average Operating Pressure: psi

COST DATA

CRUC	Customer Retail Unit Charge:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="\$0.73"/>	\$/100 cubic feet (ccf)	Total Annual Operating Cost
VPC	Variable Production Cost:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="10"/>	<input type="text" value="\$381.77"/>	\$/acre-ft	<input type="text" value="\$5,510,678"/> \$/yr (optional input)

Retail costs are less than (or equal to) production costs; please review and correct if necessary

Click here to calculate carbon emissions ---> [carbon](#)

WATER AUDIT DATA VALIDITY TIER:

*** The Water Audit Data Validity Score is in Tier IV (71-90). See Dashboard tab for additional outputs. ***

[go to dashboard](#)

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

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

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

- 1: Volume from Own Sources (VOS)
- 2: Customer Metering Inaccuracies (CMI)
- 3: Billed Metered (BMAC)

KEY PERFORMANCE INDICATOR TARGETS:

OPTIONAL: If targets exist for the operational performance indicators, they can be input below:

Unit Total Losses:	<input type="text"/>	gal/conn/day
Unit Apparent Losses:	<input type="text"/>	gal/conn/day
Unit Real Losses ^a :	<input type="text"/>	gal/conn/day
Unit Real Losses ^b :	<input type="text"/>	gal/mile/day

If entered above by user, targets will display on KPI gauges (see Dashboard)

DRAFT

Appendix G Water Contracts and Agreements