

APPENDICES

Appendix A

This appendix section shall contain all compliance and reporting related documents

Appendix A-1	DWR Recommended Tables
Appendix A-2	DWR Checklist
Appendix A-3	SBX7-7 Compliance Form
Appendix A-4	AWWA Water Audit Form

Appendix B

This appendix section shall contain all agency related documents

Appendix B-1	Resolution Adopting the 2015 UWMP
Appendix B-2	Copies of General Notice of Availability
Appendix B-3	Copies of Notification Letters

Appendix C

This appendix section shall contain supply related documents

Appendix C-1	CUWCC Report
Appendix C-2	Water Shortage Contingency Plan

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Appendix A-1: DWR Recommended Tables

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NOTES FOR REGIONAL URBAN WATER MANAGEMENT PLANS (RUWMPs)

RUWMPs will report data for each agency in the RUWMP, requiring duplicates of the standardized tables. The supplier will copy the needed tables and notate each of the copies with the name of the agency, or some other designation, identifying the table with the corresponding agency.

WUEdata upload tool for RUWMPs

RUWMPs will submit data to the WUEdata upload tool on an individual agency basis.

If the RUWMP contains a Regional Alliance, the Regional Alliance information will be uploaded separately from the individual agency information.

Table 2-1 Retail Only: Public Water Systems

Public Water System Number	Public Water System Name	Number of Municipal Connections 2015	Volume of Water Supplied 2015
CA3110124	CWA Monte Vista	See note	See note
CA3110040	CWA Binachi	See note	See note
CA3110050	CWA Applegate	See note	See note
CA3110024	CWA Alta	See note	See note
CA3110006	CWA Colfax	See note	See note
CA3110005	CWA Auburn/Bowman	See note	See note
CA3110025	CWA Foothill	See note	See note
TOTAL		35,394	26,790

NOTES: See Chapter 2. The total number of connections for PCWA's entire system is 35,394 with a total volume of 26,790 AFY in 2015.

Table 2-2: Plan Identification		
Select Only One	Type of Plan	Name of RUWMP or Regional Alliance <i>if applicable</i> <i>drop down list</i>
<input checked="" type="checkbox"/>	Individual UWMP	
	<input type="checkbox"/> Water Supplier is also a member of a RUWMP	
	<input type="checkbox"/> Water Supplier is also a member of a Regional Alliance	
<input type="checkbox"/>	Regional Urban Water Management Plan (RUWMP)	
NOTES: See Chapter 1		

Table 2-3: Agency Identification	
Type of Agency (select one or both)	
<input checked="" type="checkbox"/>	Agency is a wholesaler
<input checked="" type="checkbox"/>	Agency is a retailer
Fiscal or Calendar Year (select one)	
<input checked="" type="checkbox"/>	UWMP Tables Are in Calendar Years
<input type="checkbox"/>	UWMP Tables Are in Fiscal Years
If Using Fiscal Years Provide Month and Date that the Fiscal Year Begins (mm/dd)	
Units of Measure Used in UWMP (select from Drop down)	
Unit	AF
<p>NOTES: PCWA provides both retail and wholesale services. These services include both treated and untreated water supplies. PCWA manages customer demands and water supplies dynamically to meet all customer types.</p>	

Table 2-4 Retail: Water Supplier Information Exchange

The retail supplier has informed the following wholesale supplier(s) of projected water use in accordance with CWC 10631.

Wholesale Water Supplier Name *(Add additional rows as needed)*

NOTES: PCWA provides both retail and wholesale water supply services. It has coordinated with its wholesale agencies as discussed in Section 1.2

Table 2-4 Wholesale: Water Supplier Information Exchange (select one)

<input checked="" type="checkbox"/>	Supplier has informed more than 10 other water suppliers of water supplies available in accordance with CWC 10631. Completion of the table below is optional. If not completed include a list of the water suppliers that were informed.
See Chapter 1.2	Provide page number for location of the list.
<input type="checkbox"/>	Supplier has informed 10 or fewer other water suppliers of water supplies available in accordance with CWC 10631. Complete the table below.
Water Supplier Name <i>(Add additional rows as needed)</i>	
NOTES: See Chapter 1.2	

Table 3-1 Retail: Population - Current and Projected

Population Served	2015	2020	2025	2030	2035	2040(<i>opt</i>)
	98,128	103,885	110,387	117,368	133,706	141,365

NOTES: See Chapter 2. Populations shown are for retail treated service.

Table 3-1 Wholesale: Population - Current and Projected

Population Served	2015	2020	2025	2030	2035	2040(<i>opt</i>)
	98,128	103,885	110,387	117,368	133,706	141,365

NOTES: See Chapter 2. Populations shown are for retail treated service.

Table 4-1 Retail: Demands for Potable and Raw Water - Actual

Use Type <i>(Add additional rows as needed)</i>	2015 Actual		
<i>Drop down list</i> <i>May select each use multiple times</i> <i>These are the only Use Types that will be recognized by the WUEdata online submittal tool</i>	Additional Description <i>(as needed)</i>	Level of Treatment When Delivered <i>Drop down list</i>	Volume
Single Family		Drinking Water	11,477
Multi-Family		Drinking Water	1,615
Commercial		Drinking Water	2,465
Industrial		Drinking Water	441
Institutional/Governmental	Municipal	Drinking Water	842
Landscape		Drinking Water	1,618
Other	Commercial ag, other canal deliveries, and landscape and recreation, including losses	Raw Water	62,258
Losses		Drinking Water	2,751
TOTAL			83,467

NOTES: See Chapter 4. Values in this table are for 2015, which was significantly lower than used for planning. Values are for Zone 1, Zone 2, Zone 3 and Zone 5.

Table 4-1 Wholesale: Demands for Potable and Raw Water - Actual

Use Type <i>(Add additional rows as needed)</i>	2015 Actual		
<p>Drop down list <i>May select each use multiple times</i> <i>These are the only use types that will be recognized by the WUE data online submittal tool</i></p>	Additional Description <i>(as needed)</i>	Level of Treatment When Delivered <i>Drop down list</i>	Volume
Sales to other agencies	See Section 4.4.4	Drinking Water	6,424
Sales to other agencies	See Section 4.4.5	Raw Water	20,148

NOTES: See Chapter 4. Values in this table are for 2015, which was significantly lower than used for planning.

Table 4-2 Retail: Demands for Potable and Raw Water - Projected

Use Type <i>(Add additional rows as needed)</i>	Additional Description <i>(as needed)</i>	Projected Water Use <i>Report To the Extent that Records are Available</i>				
<u>Drop down list</u> <i>May select each use multiple times</i> <i>These are the only Use Types that will be recognized by the WUEdata online submittal tool</i>		2020	2025	2030	2035	2040-opt
Other	Zone 1, and 2 treated demand total including multi-family, single family, commercial, industrial, municipal, landscape and losses	28,600	32,800	37,600	42,500	49,700
Other	Zone 1 and Zone 5 Raw Demand total agriculture, canal customers and losses	75,600	74,300	73,100	71,800	70,500
Other	Zone 3 treated demand total including multi-family, single family, commercial, industrial, municipal, landscape and losses	760	730	740	720	750
Other	Zone 3 Raw Demand total agriculture, canal customers and losses	8,420	7,970	7,650	7,650	7,650
TOTAL		113,380	115,800	119,090	122,670	128,600
NOTES: See Chapter 4 for in-depth discussion of the projected water demands.						

Table 4-2 Wholesale: Demands for Potable and Raw Water - Projected

Use Type <i>(Add additional rows as needed)</i>	Additional Description <i>(as needed)</i>	Projected Water Use <i>Report To the Extent that Records are Available</i>				
Drop down list <i>May select each use multiple times</i> <i>These are the only Use Types that will be recognized by the WUEdata online submittal tool.</i>		2020	2025	2030	2035	2040 <i>(opt)</i>
Other	Wholesale treated demand for Zone 1 including losses. See Table 4-11.	15,000	19,600	25,000	30,300	37,000
Other	Western Area Untreated Raw Water demands including losses. See Table 4-12.	46,821	59,400	63,714	68,936	78,500
Other	Zone 3	2,150	2,150	2,150	2,150	2,150
TOTAL		63,971	81,150	90,864	101,386	117,650
<p>NOTES: See Chapter 4 for in-depth discussion of the projected water demands.</p>						

Table 4-3 Retail: Total Water Demands

	2015	2020	2025	2030	2035	2040 (opt)
Potable and Raw Water <i>From Tables 4-1 and 4-2</i>	83,467	113,380	115,800	119,090	122,670	128,600
Recycled Water Demand* <i>From Table 6-4</i>	0	0	0	0	0	0
TOTAL WATER DEMAND	83,467	113,380	115,800	119,090	122,670	128,600

**Recycled water demand fields will be blank until Table 6-4 is complete.*

NOTES: See Chapter 4

Table 4-3 Wholesale: Total Water Demands						
	2015	2020	2025	2030	2035	2040(opt)
Potable and Raw Water <i>From Tables 4-1 and 4-2</i>	26,572	63,971	81,150	90,864	101,386	117,650
Recycled Water Demand* <i>From Table 6-4</i>	0	0	0	0	0	0
TOTAL WATER DEMAND	26,572	63,971	81,150	90,864	101,386	117,650
<i>*Recycled water demand fields will be blank until Table 6-4 is complete.</i>						
NOTES: See Chapter 4						

Table 4-4 Retail: 12 Month Water Loss Audit Reporting

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss*
01/2014	1949

** Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.*

NOTES: See Appendix A-4. This is the 2014 Audit value. A data issue for 2015 is still being resolved and the 2015 Audit form is pending

Table 4-4 Wholesale: 12 Month Water Loss Audit Reporting

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss*
n/a	See notes

** Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.*

NOTES: PCWA provides both retail and wholesale services. These services include both treated and untreated water supplies. PCWA manages customer demands and water supplies dynamically to meet all customer types. PCWA only prepares the AWWA Audit form for its retail treated water system. PCWA separately tracks losses with its retail raw, wholesale treated and wholesale raw customers.

Table 4-5 Retail Only: Inclusion in Water Use Projections

<p>Are Future Water Savings Included in Projections? (Refer to Appendix K of UWMP Guidebook) <i>Drop down list (y/n)</i></p>	<p>Yes</p>
<p>If "Yes" to above, state the section or page number, in the cell to the right, where citations of the codes, ordinances, etc... utilized in demand projections are found.</p>	<p>Section 4.3</p>
<p>Are Lower Income Residential Demands Included In Projections? <i>Drop down list (y/n)</i></p>	<p>Yes</p>
<p>NOTES: See Chapter 4</p>	

Table 5-1 Baselines and Targets Summary*Retail Agency or Regional Alliance Only*

Baseline Period	Start Year	End Year	Average Baseline GPCD*	2015 Interim Target *	Confirmed 2020 Target*
10-15 year	1995	2004	322	292	261
5 Year	2004	2008	299		

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

NOTES:

Table 5-2: 2015 Compliance

Retail Agency or Regional Alliance Only

Actual 2015 GPCD*	2015 Interim Target GPCD*	Optional Adjustments to 2015 GPCD					2015 GPCD* (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2015? Y/N
		Enter "0" if no adjustment is made <i>Methodology 8</i>						
		Extraordinary Events*	Economic Adjustment*	Weather Normalization*	TOTAL Adjustments*	Adjusted 2015 GPCD*		
203	292	0	0	0	0	203	203	Yes

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

NOTES: See Chapter 4

Table 6-1 Retail: Groundwater Volume Pumped

☒	Supplier does not pump groundwater. The supplier will not complete the table below.					
Groundwater Type <i>Drop Down List</i> <i>May use each category multiple times</i>	Location or Basin Name	2011	2012	2013	2014	2015
<i>Add additional rows as needed</i>						
TOTAL		0	0	0	0	0
NOTES: See Chapter 3						

Table 6-1 Wholesale: Groundwater Volume Pumped

☒	Supplier does not pump groundwater. The supplier will not complete the table below.					
Groundwater Type <i>Drop Down List</i> <i>May use each category multiple times</i>	Location or Basin Name	2011	2012	2013	2014	2015
TOTAL		0	0	0	0	0

NOTES: PCWA has two wells that are in place for use during extreme dry conditions as a backup and emergency water supply

Table 6-2 Retail: Wastewater Collected Within Service Area in 2015

☒	There is no wastewater collection system. The supplier will not complete the table below.					
	Percentage of 2015 service area covered by wastewater collection system <i>(optional)</i>					
	Percentage of 2015 service area population covered by wastewater collection system <i>(optional)</i>					
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected from UWMP Service Area 2015	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i> <i>Drop Down List</i>
<i>Add additional rows as needed</i>						
Total Wastewater Collected from Service Area in 2015:		0				
NOTES: PCWA is working with the City of Lincoln and the City of Roseville to strategically plan for regional recycled water opportunities through the plants operated by the two cities.						

Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2015


<input checked="" type="checkbox"/> No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table below.										
Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number (optional)	Method of Disposal <i>Drop down list</i>	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level <i>Drop down list</i>	2015 volumes			
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area
<i>Add additional rows as needed</i>										
Total							0	0	0	0
NOTES: PCWA is working with the City of Lincoln and the City of Roseville to strategically plan for regional recycled water opportunities through the plants operated by the two cities.										

Table 6-3 Wholesale: Wastewater Treatment and Discharge Within Service Area in 2015

✕ Wholesale supplier neither distributes nor provides supplemental treatment to recycled water. The supplier will not complete the table below.										
Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number (optional)	Method of Disposal <i>Drop down list</i>	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level <i>Drop down list</i>	2015 volumes			
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area
<i>Add additional rows as needed</i>										
Total							0	0	0	0

NOTES: PCWA is working with the City of Lincoln and the City of Roseville to strategically plan for regional recycled water opportunities through the plants operated by the two cities.

Table 6-4 Retail: Current and Projected Recycled Water Direct Beneficial Uses Within Service Area

 Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.								
Name of Agency Producing (Treating) the Recycled Water:								
Name of Agency Operating the Recycled Water Distribution System:								
Supplemental Water Added in 2015								
Source of 2015 Supplemental Water								
Beneficial Use Type	General Description of 2015 Uses	Level of Treatment <i>Drop down list</i>	2015	2020	2025	2030	2035	2040 (opt)
Agricultural irrigation								
Landscape irrigation (excludes golf courses)								
Golf course irrigation								
Commercial use								
Industrial use	Industrial Reuse							
Geothermal and other energy production								
Seawater intrusion barrier								
Recreational impoundment								
Wetlands or wildlife habitat								
Groundwater recharge (IPR)*								
Surface water augmentation (IPR)*								
Direct potable reuse								
Other (<i>Provide General Description</i>)								
Total:			0	0	0	0	0	0

**IPR - Indirect Potable Reuse*

NOTES: See Chapter 3 for discussion of potential recycled water opportunities.

Table 6-4 Wholesale: Current and Projected Retailers Provided Recycled Water Within Service Area

<input checked="" type="checkbox"/>	Recycled water is not directly treated or distributed by the supplier. The supplier will not complete the table below.						
Name of Receiving Supplier or Direct Use by Wholesaler	Level of Treatment <i>Drop</i> <i>down list</i>	2015	2020	2025	2030	2035	2040 (<i>opt</i>)
<i>Add additional rows as needed</i>							

Table 6-5 Retail: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual

☒	Recycled water was not used in 2010 nor projected for use in 2015. The supplier will not complete the table below.	
Use Type	2010 Projection for 2015	2015 Actual Use
Agricultural irrigation		
Landscape irrigation (excludes golf courses)		
Golf course irrigation		
Commercial use		
Industrial use		
Geothermal and other energy production		
Seawater intrusion barrier		
Recreational impoundment		
Wetlands or wildlife habitat		
Groundwater recharge (IPR)		
Surface water augmentation (IPR)		
Direct potable reuse		
Other	<i>Type of Use</i>	
Total	0	0

NOTES: PCWA is working with the City of Lincoln and the City of Roseville to strategically plan for regional recycled water opportunities through the plants operated by the two cities.

Table 6-5 Wholesale: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual

☒	Recycled water was not used or distributed by the supplier in 2010, nor projected for use or distribution in 2015. The wholesale supplier will not complete the table below.	
Name of Receiving Supplier or Direct Use by Wholesaler	2010 Projection for 2015	2015 actual use
<i>Add additional rows as needed</i>		
Total	0	0

NOTES: PCWA is working with the City of Lincoln and the City of Roseville to strategically plan for regional recycled water opportunities through the plants operated by the two cities.

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

	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation.		
	Provide page location of narrative in UWMP		
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use
<i>Add additional rows as needed</i>			
Supply reliability	Regional recycled water projects being developed with City of Lincoln and City of Roseville	2025	2,500
Total			2,500
NOTES: See Section 3.			

Table 6-7 Retail: Expected Future Water Supply Projects or Programs						
<input type="checkbox"/>	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.					
<input checked="" type="checkbox"/>	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.					
Sect. 3.6 & 3.7.4	Provide page location of narrative in the UWMP					
Name of Future Projects or Programs	Joint Project with other agencies?		Description (if needed)	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down List</i>	Expected Increase in Water Supply to Agency <i>This may be a range</i>
	<i>Drop Down List (y/n)</i>	<i>If Yes, Agency Name</i>				
<i>Add additional rows as needed</i>						
NOTES: See Section 3.6 and Section 3.7.4						

Table 6-7 Wholesale: Expected Future Water Supply Projects or Programs

No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.

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

Sect. 3.6 & 3.7.4 Provide page location of narrative in the UWMP

Name of Future Projects or Programs	Joint Project with other agencies?		Description <i>(if needed)</i>	Planned Implementation Year	Planned for Use in Year Type <i>Drop Down list</i>	Expected Increase in Water Supply to Agency
	<i>Drop Down Menu</i>	<i>If Yes, Agency Name</i>				

Add additional rows as needed

NOTES: See Section 3.6 and Section 3.7.4

Table 6-8 Retail: Water Supplies — Actual

Water Supply	Additional Detail on Water Supply	2015		
<i>Drop down list</i> <i>May use each category multiple times.</i> <i>These are the only water supply categories that will be recognized by the WUEdata online submittal tool</i>		Actual Volume	Water Quality <i>Drop Down List</i>	Total Right or Safe Yield <i>(optional)</i>
<i>Add additional rows as needed</i>				
Surface water	MFP	42,346	Raw Water	
Purchased or Imported Water	PG&E Agreements	66,176	Raw Water	
Surface water	Pre 1914 Appropriations	1,496	Raw Water	
Total		110,018		0

NOTES: See detailed discussion of PCWA supplies in Chapter 3. These values are managed dynamically as PCWA's overall supply to meet it retail treated, retail raw, wholesale treated and wholesale raw customer demands. These values are the same as reported on Table 6-8W.

Table 6-8 Wholesale: Water Supplies — Actual

Water Supply	Additional Detail on Water Supply	2015		
<i>Drop down list</i> <i>May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool</i>		Actual Volume	Water Quality <i>Drop Down List</i>	Total Right or Safe Yield <i>(optional)</i>
<i>Add additional rows as needed</i>				
Surface water	MFP	42,346	Raw Water	
Purchased or Imported Water	PG&E Agreements	66,176	Raw Water	
Surface water	Pre 1914 Appropriations	1,496	Raw Water	
	Total	110,018		0

NOTES: See detailed discussion of PCWA supplies in Chapter 3. These values are managed dynamically as PCWA's overall supply to meet it retail treated, retail raw, wholesale treated and wholesale raw customer demands. These values are the same as reported on Table 6-8R.

Table 6-9 Retail: Water Supplies — Projected

Table 6-9 Retail: Water Supplies — Projected											
Water Supply	Additional Detail on Water Supply	Projected Water Supply <i>Report To the Extent Practicable</i>									
<i>Drop down list</i> <i>May use each category multiple times.</i> <i>These are the only water supply categories that will be recognized by the WUEdata online submittal tool</i>		2020		2025		2030		2035		2040 (opt)	
		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
<i>Add additional rows as needed</i>											
Surface water	MFP	120,000		120,000		120,000		120,000		120,000	
Purchased or Imported Water	CVP Contract	0		32,000		32,000		32,000		32,000	
Purchased or Imported Water	PG&E Agreements	110,400		110,400		110,400		110,400		110,400	
Surface water	Pre 1914 Appropriations	3,400		3,400		3,400		3,400		3,400	
Recycled Water	from City of Lincoln/Roseville	0		2,500		5,000		7,000		8,000	
Groundwater	Sunset Industrial Area	0		0		0		0		0	
Total		233,800	0	268,300	0	270,800	0	272,800	0	273,800	0
NOTES: See detailed discussion of PCWA supplies in Chapter 3. These values are managed dynamically as PCWA's overall supply to meet it retail treated, retail raw, wholesale treated and wholesale raw customer demands. Groundwater is only used during dry-years. These values are the same as reported on Table 6-9W.											

Table 6-9 Wholesale: Water Supplies — Projected											
Water Supply	Additional Detail on Water Supply	Projected Water Supply <i>Report To the Extent Practicable</i>									
		2020		2025		2030		2035		2040 (opt)	
<i>Drop down list</i> <i>May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool</i>		Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)	Reasonably Available Volume	Total Right or Safe Yield (optional)
<i>Add additional rows as needed</i>											
Surface water	MFP	120,000		120,000		120,000		120,000		120,000	
Purchased or Imported Water	CVP Contract	0		32,000		32,000		32,000		32,000	
Purchased or Imported Water	PG&E Agreements	110,400		110,400		110,400		110,400		110,400	
Surface water	Pre 1914 Appropriations	3,400		3,400		3,400		3,400		3,400	
Recycled Water	from City of Lincoln/Roseville	0		2,500		5,000		7,000		8,000	
Groundwater	Sunset Industrial Area	0		0		0		0		0	
Total		233,800	0	268,300	0	270,800	0	272,800	0	273,800	0
NOTES: See detailed discussion of PCWA supplies in Chapter 3. These values are managed dynamically as PCWA's overall supply to meet it retail treated, retail raw, wholesale treated and wholesale raw customer demands. Groundwater is only used during dry-years. These values are the same as reported on Table 6-9R.											

Table 7-1 Retail: Basis of Water Year Data

Year Type	Base Year <i>If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 1999-2000, use 2000</i>	Available Supplies if Year Type Repeats	
		<input checked="" type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location <u>See Section 3.7</u>
		<input type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available	% of Average Supply
Average Year			100%
Single-Dry Year			
Multiple-Dry Years 1st Year			
Multiple-Dry Years 2nd Year			
Multiple-Dry Years 3rd Year			
Multiple-Dry Years 4th Year <i>Optional</i>			
Multiple-Dry Years 5th Year <i>Optional</i>			
Multiple-Dry Years 6th Year <i>Optional</i>			
<p>Agency may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If an agency uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table.</p>			
<p>NOTES: See detailed discussion of PCWA supplies in Section 3.7. Each supply is governed by various hydrologic assumptions or contractual conditions, which PCWA has characterized for purposes of this UWMP. These values are the same as reported on Table 7-1W.</p>			

Table 7-1 Wholesale: Basis of Water Year Data

Year Type	Base Year <i>If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 1999-2000, use 2000</i>	Available Supplies if Year Type Repeats	
		<input checked="" type="checkbox"/>	Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location <u> See Section 3.7 </u>
		<input type="checkbox"/>	Quantification of available supplies is provided in this table as either volume only, percent only, or both.
		Volume Available	% of Average Supply
Average Year			100%
Single-Dry Year			
Multiple-Dry Years 1st Year			
Multiple-Dry Years 2nd Year			
Multiple-Dry Years 3rd Year			
Multiple-Dry Years 4th Year <i>Optional</i>			
Multiple-Dry Years 5th Year <i>Optional</i>			
Multiple-Dry Years 6th Year <i>Optional</i>			

Agency may use multiple versions of Table 7-1 if different water sources have different base years and the supplier chooses to report the base years for each water source separately. If an agency uses multiple versions of Table 7-1, in the "Note" section of each table, state that multiple versions of Table 7-1 are being used and identify the particular water source that is being reported in each table. Suppliers may create an additional worksheet for the additional tables.

NOTES: See detailed discussion of PCWA supplies in Section 3.7. Each supply is governed by various hydrologic assumptions or contractual conditions, which PCWA has characterized for purposes of this UWMP. These values are the same as reported on Table 7-1R.

Table 7-2 Retail: Normal Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 (Opt)
Supply totals (autofill from Table 6-9)	233,800	268,300	270,800	272,800	273,800
Demand totals (autofill from Table 4-3R and 4-3W)	177,351	196,950	209,954	224,056	246,250
Difference	56,449	71,350	60,846	48,744	27,550
<p>NOTES: See detailed discussion of supply and demand integration in Chapter 7. Because PCWA manages its supplies and wholesale and retail demands collectively, these values are the same as reported on Table 7-2W.</p>					

Table 7-2 Wholesale: Normal Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 (Opt)
Supply totals (autofill from Table 6-9)	233,800	268,300	270,800	272,800	273,800
Demand totals (autofill from Table 4-3R and 4-3W)	177,351	196,950	209,954	224,056	246,250
Difference	56,449	71,350	60,846	48,744	27,550
<p>NOTES: See detailed discussion of supply and demand integration in Chapter 7. Because PCWA manages its supplies and and wholesale and retail demands collectively, these values are the same as reported on Table 7-2R.</p>					

Table 7-3 Retail: Single Dry Year Supply and Demand Comparison					
	2020	2025	2030	2035	2040 (Opt)
Supply totals	138,450	156,950	161,450	163,450	165,450
Demand totals	98,673	106892.06	116,988	128,069	146,915
Difference	39,777	50,058	44,462	35,381	18,536
<p>NOTES: See detailed discussion of supply and demand integration in Chapter 7. Because PCWA manages its supplies and and wholesale and retail demands collectively, these values are the same as reported on Table 7-3W.</p>					

Table 7-3 Wholesale: Single Dry Year Supply and Demand Comparison

	2020	2025	2030	2035	2040 (Opt)
Supply totals	138,450	156,950	161,450	163,450	165,450
Demand totals	98,673	106892.06	116,988	128,069	146,915
Difference	39,777	50,058	44,462	35,381	18,536

NOTES: See detailed discussion of supply and demand integration in Chapter 7. Because PCWA manages its supplies and and wholesale and retail demands collectively, these values are the same as reported on Table 7-3R.

Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison

		2020	2025	2030	2035	2040 (Opt)
First year	Supply totals	204,500	231,000	233,500	235,500	236,500
	Demand totals	142,335	152,651	165,272	178,971	200,562
	Difference	62,165	78,349	68,228	56,529	35,939
Second year	Supply totals	204,500	231,000	233,500	235,500	236,500
	Demand totals	142,335	152,651	165,272	178,971	200,562
	Difference	62,165	78,349	68,228	56,529	35,939
Third year	Supply totals	204,500	231,000	233,500	235,500	236,500
	Demand totals	142,335	152,651	165,272	178,971	200,562
	Difference	62,165	78,349	68,228	56,529	35,939

NOTES: See detailed discussion of supply and demand integration in Chapter 7. Because PCWA manages its supplies and and wholesale and retail demands collectively, these values are the same as reported on Table 7-4W.

Table 7-4 Wholesale: Multiple Dry Years Supply and Demand Comparison

		2020	2025	2030	2035	2040 (Opt)
First year	Supply totals	204,500	231,000	233,500	235,500	236,500
	Demand totals	142,335	152,651	165,272	178,971	200,562
	Difference	62,165	78,349	68,228	56,529	35,939
Second year	Supply totals	204,500	231,000	233,500	235,500	236,500
	Demand totals	142,335	152,651	165,272	178,971	200,562
	Difference	62,165	78,349	68,228	56,529	35,939
Third year	Supply totals	204,500	231,000	233,500	235,500	236,500
	Demand totals	142,335	152,651	165,272	178,971	200,562
	Difference	62,165	78,349	68,228	56,529	35,939

NOTES: See detailed discussion of supply and demand integration in Chapter 7. Because PCWA manages its supplies and and wholesale and retail demands collectively, these values are the same as reported on Table 7-4R.

**Table 8-1 Retail
Stages of Water Shortage Contingency Plan**

Stage	Complete Both	
	Percent Supply Reduction ¹ <i>Numerical value as a percent</i>	Water Supply Condition <i>(Narrative description)</i>
<i>Add additional rows as needed</i>		
Normal	0%	see Section 6.1.2
Stage 1	up to 20%	see Section 6.1.2
Stage 2	up to 30%	see Section 6.1.2
Stage 3	up to 40%	see Section 6.1.2
Stage 4	up to 50% and greater	see Section 6.1.2
¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.		
NOTES: See Chapter 6 and Appendix C-3		

Table 8-1 Wholesale Stages of Water Shortage Contingency Plan

Complete Both		
Stage	Supply Reduction ¹	Water Supply Condition (Narrative description)
<i>Add additional rows as needed</i>		
See Notes		
¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.		
NOTES: Wholesale deliveries are governed by contractual arrangements with identified shortage provisions. See Chapters 3 and 6 for further details		

Table 8-2 Retail Only: Restrictions and Prohibitions on End Uses

Stage	Restrictions and Prohibitions on End Users <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>Drop Down List</i>
<i>Add additional rows as needed</i>			
Stage 1	Landscape - Restrict or prohibit runoff from landscape irrigation		
Stage 1	Landscape - Limit landscape irrigation to specific times		
Stage 1	Landscape - Limit landscape irrigation to specific days		
Stage 1	CII - Lodging establishment must offer opt out of linen service		
Stage 1	CII - Restaurants may only serve water upon request		
Stage 2	Landscape - Other landscape restriction or prohibition		
Stage 2	Water Features - Restrict water use for decorative water features, such as fountains		
Stage 2	CII - Other CII restriction or prohibition		
Stage 3	Landscape - Other landscape restriction or prohibition		
Stage 3	CII - Other CII restriction or prohibition		
Stage 4	Landscape - Other landscape restriction or prohibition		
NOTES: See Chapter 6 and Appendix C-3 for more details			

**Table 8-3 Retail Only:
Stages of Water Shortage Contingency Plan - Consumption Reduction Methods**

Stage	Consumption Reduction Methods by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	Additional Explanation or Reference <i>(optional)</i>
<i>Add additional rows as needed</i>		
Stage 1	Expand Public Information Campaign	The Board will direct staff as necessary under each stage
Stage 1	Other	See Chapter 6 and Appendix D-3
NOTES: See Chapter 6 and Appendix C-3 for more details		

Table 8-4 Retail: Minimum Supply Next Three Years

	2016	2017	2018
Available Water Supply	233,800	196,700	196,700

NOTES: See Section 6.5. Because PCWA manages its supply portfolio to meet both retail and wholesale demands, these are the same values presented in Table 8-4W.

Table 8-4 Wholesale: Minimum Supply Next Three Years

	2016	2017	2018
Available Water Supply	233,800	196,700	196,700

NOTES: See Section 6.5. Because PCWA manages its supply portfolio to meet both retail and wholesale demands, these are the same values presented in Table 8-4R.

Table 10-1 Retail: Notification to Cities and Counties

City Name	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Roseville	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lincoln	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rocklin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Loomis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Auburn	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Colfax	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
<i>Add additional rows as needed</i>		
Placer County	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sacramento County	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p>NOTES: See Chapter 1 and Appendix B-3 for additional entities that are not cities or counties.</p>		

Table 10-1 Wholesale: Notification to Cities and Counties (select one)

<input checked="" type="checkbox"/>	Supplier has notified more than 10 cities or counties in accordance with CWC 10621 (b) and 10642. Completion of the table below is not required. Provide a separate list of the cities and counties that were notified.
-------------------------------------	---

Provide the page or location of this list in the UWMP.

	Supplier has notified 10 or fewer cities or counties. Complete the table below.
--	---

City Name	60 Day Notice	Notice of Public Hearing
-----------	---------------	--------------------------

Add additional rows as needed

Roseville	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lincoln	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rocklin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Loomis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Auburn	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Colfax	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

County Name <i>Drop Down List</i>	60 Day Notice	Notice of Public Hearing
--------------------------------------	---------------	--------------------------

Add additional rows as needed

Sacramento County	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Placer County	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

NOTES: See Chapter 1 and Appendix B-3 for additional entities that are not cities or counties.

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Appendix A-2: DWR Checklist

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2015 UWMP Checklist

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location <i>(Optional Column for Agency Use)</i>
10620(b)	Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.	Plan Preparation	Section 2.1	Section 1.1
10620(d)(2)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan Preparation	Section 2.5.2	Section 1.2, Appendix B-3
10642	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	Plan Preparation	Section 2.5.2	Section 1.2, Appendix B-3
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	Section 2.1
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	Section 2.1.2
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	Section 2.1.3
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	Section 2.1
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Sections 3.4 and 5.4	Section 2.1.3
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	Section 4.4
10631(e)(3)(A)	Report the distribution system water loss for the most recent 12-month period available.	System Water Use	Section 4.3	Section 4.4, Appendix A-4
10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the supplier.	System Water Use	Section 4.5	Section 4.7
10608.20(b)	Retail suppliers shall adopt a 2020 water use target using one of four methods.	Baselines and Targets	Section 5.7 and App E	Section 4.1
10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target,	Baselines and Targets	Chapter 5 and App E	Section 4.1, 4.2,

	interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.			Appendix A-3
10608.22	Retail suppliers' per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use of the 5 year baseline. This does not apply if the suppliers base GPCD is at or below 100.	Baselines and Targets	Section 5.7.2	Section 4.1, 4.2, Appendix A-3
10608.24(a)	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	Section 4.2, Appendix A-3
10608.24(d)(2)	If the retail supplier adjusts its compliance GPCD using weather normalization, economic adjustment, or extraordinary events, it shall provide the basis for, and data supporting the adjustment.	Baselines and Targets	Section 5.8.2	Section 4.2, Appendix A-3
10608.36	Wholesale suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their retail water suppliers achieve targeted water use reductions.	Baselines and Targets	Section 5.1	Section 5.1, Appendix D-2
10608.40	Retail suppliers shall report on their progress in meeting their water use targets. The data shall be reported using a standardized form.	Baselines and Targets	Section 5.8 and App E	Section 4.1, 4.2, and Appendix A-3
10631(b)	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	Section 3.6
10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	Section 3.2, 3.6, and Appendix C-2
10631(b)(1)	Indicate whether a groundwater management plan has been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System Supplies	Section 6.2.2	Section 3.2, Appendix C-2
10631(b)(2)	Describe the groundwater basin.	System Supplies	Section 6.2.1	Section 2.1, 3.2 and Appendix C-2
10631(b)(2)	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the supplier has the legal right to pump.	System Supplies	Section 6.2.2	Section 3.2, Appendix C-2
10631(b)(2)	For unadjudicated basins, indicate whether or not the department has identified the	System Supplies	Section 6.2.3	Section 3.2, Appendix

	basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.			C-2
10631(b)(3)	Provide a detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years	System Supplies	Section 6.2.4	Section 3.2, Appendix C-2
10631(b)(4)	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System Supplies	Sections 6.2 and 6.9	Section 3.2, Appendix C-2
10631(d)	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	Section 3.5
10631(g)	Describe the expected future water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years.	System Supplies	Section 6.8	Section 3.6, 3.7
10631(h)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	Section 3.3
10631(j)	Retail suppliers will include documentation that they have provided their wholesale supplier(s) – if any - with water use projections from that source.	System Supplies	Section 2.5.1	Section 1.2, Appendix B-3
10631(j)	Wholesale suppliers will include documentation that they have provided their urban water suppliers with identification and quantification of the existing and planned sources of water available from the wholesale to the urban supplier during various water year types.	System Supplies	Section 2.5.1	Section 1.2, Appendix B-3
10633	For wastewater and recycled water, coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.1	Section 3.4, 3.6
10633(a)	Describe the wastewater collection and treatment systems in the supplier's service area. Include quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.	System Supplies (Recycled Water)	Section 6.5.2	Section 3.4
10633(b)	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System Supplies (Recycled Water)	Section 6.5.2.2	Section 3.4
10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.3 and 6.5.4	Section 3.4
10633(d)	Describe and quantify the potential uses of recycled water and provide a determination	System Supplies (Recycled	Section 6.5.4	Section 3.4, 3.6, 3.7

	of the technical and economic feasibility of those uses.	Water)		
10633(e)	Describe the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	System Supplies (Recycled Water)	Section 6.5.4	Section 3.4, 3.6
10633(f)	Describe the actions which may be taken to encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	System Supplies (Recycled Water)	Section 6.5.5	Section 3.4, 3.6
10633(g)	Provide a plan for optimizing the use of recycled water in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.5	Section 3.4, 3.6, Appendix C-2
10620(f)	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water Supply Reliability Assessment	Section 7.4	Section 3.5, 3.6, 3.7
10631(c)(1)	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	Section 3.7
10631(c)(1)	Provide data for an average water year, a single dry water year, and multiple dry water years	Water Supply Reliability Assessment	Section 7.2	Section 3.7
10631(c)(2)	For any water source that may not be available at a consistent level of use, describe plans to supplement or replace that source.	Water Supply Reliability Assessment	Section 7.1	Section 3.7
10634	Provide information on the quality of existing sources of water available to the supplier and the manner in which water quality affects water management strategies and supply reliability	Water Supply Reliability Assessment	Section 7.1	Section 3.7
10635(a)	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years.	Water Supply Reliability Assessment	Section 7.3	Chapter 7
10632(a) and 10632(a)(1)	Provide an urban water shortage contingency analysis that specifies stages of action and an outline of specific water supply conditions at each stage.	Water Shortage Contingency Planning	Section 8.1	Section 6.1
10632(a)(2)	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency.	Water Shortage Contingency Planning	Section 8.9	Section 6.5
10632(a)(3)	Identify actions to be undertaken by the urban water supplier in case of a catastrophic interruption of water supplies.	Water Shortage Contingency Planning	Section 8.8	Section 6.6
10632(a)(4)	Identify mandatory prohibitions against	Water Shortage	Section 8.2	Section 6.2,

	specific water use practices during water shortages.	Contingency Planning		Appendix A-1
10632(a)(5)	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	Section 6.1, Appendix A-1
10632(a)(6)	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency Planning	Section 8.3	Section 6.2
10632(a)(7)	Provide an analysis of the impacts of each of the actions and conditions in the water shortage contingency analysis on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts.	Water Shortage Contingency Planning	Section 8.6	Section 6.3
10632(a)(8)	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	Appendix D-3
10632(a)(9)	Indicate a mechanism for determining actual reductions in water use pursuant to the water shortage contingency analysis.	Water Shortage Contingency Planning	Section 8.5	Section 6.4, Appendix D-3
10631(f)(1)	Retail suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand Management Measures	Sections 9.2 and 9.3	Section 5.1, Appendix D-2
10631(f)(2)	Wholesale suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and supplier assistance program.	Demand Management Measures	Sections 9.1 and 9.3	Section 5.1, Appendix D-2
10631(i)	CUWCC members may submit their 2013-2014 CUWCC BMP annual reports in lieu of, or in addition to, describing the DMM implementation in their UWMPs. This option is only allowable if the supplier has been found to be in full compliance with the CUWCC MOU.	Demand Management Measures	Section 9.5	Section 5.1, Appendix D-2
10608.26(a)	Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets.	Plan Adoption, Submittal, and Implementation	Section 10.3	Section 1.3, Appendix B-3
10621(b)	Notify, at least 60 days prior to the public hearing, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.	Plan Adoption, Submittal, and Implementation	Section 10.2.1	Section 1.3, Appendix B-3
10621(d)	Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.	Plan Adoption, Submittal, and Implementation	Sections 10.3.1 and 10.4	Section 1.3
10635(b)	Provide supporting documentation that	Plan Adoption,	Section 10.4.4	Chapter 6,

	Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Submittal, and Implementation		Appendix B-2
10642	Provide supporting documentation that the urban water supplier made the plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan.	Plan Adoption, Submittal, and Implementation	Sections 10.2.2, 10.3, and 10.5	Section 1.3, Appendix B-2
10642	The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water.	Plan Adoption, Submittal, and Implementation	Sections 10.2.1	Section 1.3, Appendix B-2, B-3
10642	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	Section 1.3, Appendix B-1
10644(a)	Provide supporting documentation that the urban water supplier has submitted this UWMP to the California State Library.	Plan Adoption, Submittal, and Implementation	Section 10.4.3	Section 1.3
10644(a)(1)	Provide supporting documentation that the urban water supplier has submitted this UWMP to any city or county within which the supplier provides water no later than 30 days after adoption.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 1.3
10644(a)(2)	The plan, or amendments to the plan, submitted to the department shall be submitted electronically.	Plan Adoption, Submittal, and Implementation	Sections 10.4.1 and 10.4.2	Section 1.3
10645	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the supplier has or will make the plan available for public review during normal business hours.	Plan Adoption, Submittal, and Implementation	Section 10.5	Section 1.3

Appendix A-3: SBX7-7 Compliance Forms

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SB X7-7 Verification Form Version FINAL.1

Table 4-C.4 has been modified from the FINAL version.

WUEdata Entry Exceptions	
The data from the tables below will not be entered into WUEdata tables (the tabs for these tables' worksheets are colored purple). These tables will be submitted as separate uploads, in Excel, to WUEdata.	
<p>Process Water Deduction</p> <p>7 tables 4-C, 4-C.1, 4-C.2, 4-C.3, 4-C.4 and 4-D</p> <p>that will use the process water deduction will complete the appropriate tables in Excel, submit them as a separate upload to the WUE data tool, and include them in its UWMP.</p>	<p>SB X7- A supplier</p>
<p>Target Method 2</p> <p>X7-7 tables 7-B, 7-C, and 7-D</p> <p>supplier that selects Target Method 2 will contact DWR (gwen.huff@water.ca.gov) for SB X7-7 tables 7-B, 7-C, and 7-D.</p>	<p>SB A</p>
<p>Target Method 4</p> <p>tables are only available online at http://www.dwr.water.ca.gov/wateruseefficiency/sb7/committees/urban/u4/ptm4.cfm A supplier that selects Target Method 4 will save the tables from the website listed above, complete the tables, submit as a separate upload to WUE data, and include them with its UWMP.</p>	<p>These</p>

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

Acre Feet

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

NOTES:

SB X7-7 Table-1: Baseline Period Ranges

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	31,336	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	1995	
	Year ending baseline period range ³	2004	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2004	
	Year ending baseline period range ⁴	2008	

¹If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. ²The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.

³The ending year must be between December 31, 2004 and December 31, 2010.

⁴The ending year must be between December 31, 2007 and December 31, 2010.

NOTES:

SB X7-7 Table 2: Method for Population Estimates

Method Used to Determine Population
(may check more than one)

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

NOTES: See Section 4.1

SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	1995	54,744
Year 2	1996	56,504
Year 3	1997	58,458
Year 4	1998	59,544
Year 5	1999	62,851
Year 6	2000	67,321
Year 7	2001	72,056
Year 8	2002	76,923
Year 9	2003	81,149
Year 10	2004	84,273
5 Year Baseline Population		
Year 1	2004	84,273
Year 2	2005	85,942
Year 3	2006	88,676
Year 4	2007	90,312
Year 5	2008	90,977
2015 Compliance Year Population		
2015		98,128
NOTES: See Section 4.1		

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	1995	19,004			-		19,004
Year 2	1996	19,760			-		19,760
Year 3	1997	22,976			-		22,976
Year 4	1998	19,792			-		19,792
Year 5	1999	24,061			-		24,061
Year 6	2000	23,497			-		23,497
Year 7	2001	26,918			-		26,918
Year 8	2002	28,471			-		28,471
Year 9	2003	27,911			-		27,911
Year 10	2004	30,957			-		30,957
10 - 15 year baseline average gross water use							24,335
5 Year Baseline - Gross Water Use							
Year 1	2004	30,957			-		30,957
Year 2	2005	27,632			-		27,632
Year 3	2006	27,976			-		27,976
Year 4	2007	29,338			-		29,338
Year 5	2008	31,371			-		31,371
5 year baseline average gross water use							29,455
2015 Compliance Year - Gross Water Use							
2015		22,366	-		-		22,366

* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3

NOTES: See Section 4.1

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

Complete one table for each source.

Name of Source		All Retail Treated Water in Zone 1 and Zone 3		
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* Optional (+/-)	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1995	19,004		19,004
Year 2	1996	19,760		19,760
Year 3	1997	22,976		22,976
Year 4	1998	19,792		19,792
Year 5	1999	24,061		24,061
Year 6	2000	23,497		23,497
Year 7	2001	26,918		26,918
Year 8	2002	28,471		28,471
Year 9	2003	27,911		27,911
Year 10	2004	30,957		30,957
5 Year Baseline - Water into Distribution System				
Year 1	2004	30,957		30,957
Year 2	2005	27,632		27,632
Year 3	2006	27,976		27,976
Year 4	2007	29,338		29,338
Year 5	2008	31,371		31,371
2015 Compliance Year - Water into Distribution System				
	2015	22,366		22,366
* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document				
NOTES: See Table 4-1 in Section 4.1				

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

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1995	54,744	19,004	310
Year 2	1996	56,504	19,760	312
Year 3	1997	58,458	22,976	351
Year 4	1998	59,544	19,792	297
Year 5	1999	62,851	24,061	342
Year 6	2000	67,321	23,497	312
Year 7	2001	72,056	26,918	334
Year 8	2002	76,923	28,471	330
Year 9	2003	81,149	27,911	307
Year 10	2004	84,273	30,957	328
10-15 Year Average Baseline GPCD				322
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	2004	84,273	30,957	328
Year 2	2005	85,942	27,632	287
Year 3	2006	88,676	27,976	282
Year 4	2007	90,312	29,338	290
Year 5	2008	90,977	31,371	308
5 Year Average Baseline GPCD				299
2015 Compliance Year GPCD				
2015		98,128	22,366	203

NOTES:

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

10-15 Year Baseline GPCD	322
5 Year Baseline GPCD	299
2015 Compliance Year GPCD	203

NOTES:

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

Target Method		Supporting Documentation
<input 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 checked="" type="checkbox"/>	Method 4	Method 4 Calculator

NOTES:

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

20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
322	258

NOTES:

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

5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
299	284	261	261

¹Maximum 2020 Target is 95% of the 5 Year Baseline GPCD ²2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.

NOTES:

SB X7-7 Table 8: 2015 Interim Target GPCD

Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	2015 Interim Target GPCD
261	322	292

NOTES:

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				
203	292	-	-	<i>From Methodology 8 (Optional)</i>	-	203	203	YES

NOTES: See Section 4.2

Appendix A-4: AWWA Water Audit Form

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AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association
Copyright © 2014, All Rights Reserved

?	Click to access definition
+	Click to add a comment

Water Audit Report for: Placer County Water Agency
Reporting Year: 2014 1/2014 - 12/2014

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

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

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

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

Master Meter and Supply Error Adjustments

WATER SUPPLIED

Volume from own sources:	+	?	7	32,475.280	acre-ft/yr
Water imported:	+	?	7	1,138.800	acre-ft/yr
Water exported:	+	?	7	10,011.600	acre-ft/yr

Pcnt:	+	?	7	-1.00%	<input checked="" type="radio"/> <input type="radio"/>	Value:		acre-ft/yr
	+	?	6	0.00%	<input checked="" type="radio"/> <input type="radio"/>			acre-ft/yr
	+	?	6	0.00%	<input checked="" type="radio"/> <input type="radio"/>			acre-ft/yr

WATER SUPPLIED: **23,930.513** acre-ft/yr

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

AUTHORIZED CONSUMPTION

Billed metered:	+	?	7	21,969.000	acre-ft/yr
Billed unmetered:	+	?	7	0.000	acre-ft/yr
Unbilled metered:	+	?	7	0.000	acre-ft/yr
Unbilled unmetered:	+	?	7	12.310	acre-ft/yr

Click here:

Pcnt:	+	?	7	Value:		acre-ft/yr
				12.310	<input type="radio"/> <input checked="" type="radio"/>	

AUTHORIZED CONSUMPTION: **21,981.310** acre-ft/yr

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

1,949.203 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? 7 **59.826** acre-ft/yr

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

Customer metering inaccuracies:	+	?	7	915.375	acre-ft/yr
Systematic data handling errors:	+	?	8	0.001	acre-ft/yr

Apparent Losses: ? **975.202** acre-ft/yr

Pcnt:	+	?	7	Value:		acre-ft/yr
				0.25%	<input type="radio"/> <input checked="" type="radio"/>	

Pcnt:	+	?	7	Value:		acre-ft/yr
				4.00%	<input type="radio"/> <input checked="" type="radio"/>	
				0.001	<input type="radio"/> <input checked="" type="radio"/>	

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **974.001** acre-ft/yr

WATER LOSSES: **1,949.203** acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: ? **1,961.513** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+	?	8	628.0	miles
Number of <u>active AND inactive</u> service connections:	+	?	8	35,837	
Service connection density:	+	?	7	57	conn./mile main

Are customer meters typically located at the curbside or property line? (length of service line, beyond the property boundary, that is the responsibility of the utility)

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

Average operating pressure: + ? 7 80.0 psi

COST DATA

Total annual cost of operating water system:	+	?	7	\$45,597	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	7	\$1.56	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	7	\$358.94	\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 70 out of 100 *****

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

PRIORITY AREAS FOR ATTENTION:

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

- 1: Volume from own sources
- 2: Billed metered
- 3: Unauthorized consumption

AWWA Free Water Audit Software: System Attributes and Performance Indicators

WAS v5.0

American Water Works Association.
Copyright © 2014, All Rights Reserved.

Water Audit Report for: **Placer County Water Agency**
Reporting Year: **2014** **1/2014 - 12/2014**

***** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 70 out of 100 *****

System Attributes:

	Apparent Losses:	975.202	acre-ft/yr
+	Real Losses:	974.001	acre-ft/yr
=	Water Losses:	1,949.203	acre-ft/yr

? Unavoidable Annual Real Losses (UARL): 786.16 acre-ft/yr

Annual cost of Apparent Losses: \$662,685

Annual cost of Real Losses: \$349,608

Valued at **Variable Production Cost**

Return to Reporting Worksheet to change this assumption

Performance Indicators:

Financial:	{	Non-revenue water as percent by volume of Water Supplied:	8.2%	
		Non-revenue water as percent by cost of operating system:	2229.8%	Real Losses valued at Variable Production Cost

Operational Efficiency:	{	Apparent Losses per service connection per day:	24.29	gallons/connection/day
		Real Losses per service connection per day:	24.26	gallons/connection/day
		Real Losses per length of main per day*:	N/A	
		Real Losses per service connection per day per psi pressure:	0.30	gallons/connection/day/psi

From Above, Real Losses = Current Annual Real Losses (CARL): 974.00 acre-feet/year

? Infrastructure Leakage Index (ILI) [CARL/UARL]: 1.24

* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline

AWWA Free Water Audit Software: Water Balance

WAS v5.0

American Water Works Association.
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Water Audit Report for:	Placer County Water Agency	
Reporting Year:	2014	1/2014 - 12/2014
Data Validity Score:	70	

		Water Exported	Billed Water Exported				Revenue Water
		10,011.600	Authorized Consumption	Billed Authorized Consumption	Billed Metered Consumption (water exported is removed)	Billed Unmetered Consumption	10,011.600
Own Sources (Adjusted for known errors) 32,803.313	System Input 33,942.113	Water Supplied 23,930.513	21,981.310	21,969.000	21,969.000	0.000	21,969.000
				Unbilled Authorized Consumption	12.310	Unbilled Metered Consumption	0.000
					Unbilled Unmetered Consumption	12.310	
			Apparent Losses	975.202	Unauthorized Consumption	59.826	
					Customer Metering Inaccuracies	915.375	
			Water Losses	1,949.203		Systematic Data Handling Errors	0.001
			Real Losses	974.001		Leakage on Transmission and/or Distribution Mains	Not broken down
						Leakage and Overflows at Utility's Storage Tanks	Not broken down
						Leakage on Service Connections	Not broken down
Water Imported 1,138.800							

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Appendix B-1: Resolution Adopting the 2015 UWMP

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RESOLUTION 16- 17 OF THE BOARD OF DIRECTORS OF THE PLACER COUNTY WATER AGENCY ADOPTING THE
2015 UPDATE OF THE AGENCY'S URBAN WATER MANAGEMENT PLAN

Whereas, in 1984 the California Legislature enacted the Urban Water Management Act, requiring every urban water supplier to adopt and submit to the California Department of Water Resources an Urban Water Management Plan and to update it every five years; and

Whereas, Placer County Water Agency has, pursuant to the Act, prepared an Urban Water Management Plan in 1985 and updated it in 1992, 1997, 2000, 2005, and 2010; and

Whereas, this agency has prepared a draft update of its Urban Water Management Plan for 2015 for public review and for consideration to be adopted by this board; and

Whereas, a public hearing regarding the proposed update was held on the date of this resolution and notice of this hearing was given in accordance with the law beginning on May 19, 2016; and

Whereas, this board has received a report on the updated plan, considered plan contents, considered any public comments received, and requested such changes to the updated plan as it has deemed warranted.

Now therefore, be it resolved that the 2015 update to the Agency's Urban Water Management Plan, with any changes incorporated by this board as a result of the hearing, is hereby adopted and staff is directed to transmit a copy of the adopted document to the California Department of Water Resources by the prescribed due date.

This resolution was duly adopted at a meeting of the Board of Directors of the Placer County Water Agency held on June 2, 2016, by the following vote on roll call:

AYES: Robert Dugan, Primo Santini, III, and Chair Michael, "Mike" Lee

NOES: None

ABSENT: Graham "Gray" Allen, and Joshua Alpine

Signed and approved by me after its adoption this 2nd day of June, 2016.



Mike Lee, Chair of the Board
Placer County Water Agency

ATTEST:



Cheri Sprunck
Clerk to the Board

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Appendix B-2: Copies of General Notice of Availability

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LEGAL NOTICE

16620072

**LEGAL NOTICE
NOTICE OF AVAILABILITY OF PLACER COUNTY
WATER AGENCY DRAFT 2015 URBAN WATER
MANAGEMENT PLAN UPDATE AND PUBLIC HEARING
TO RECEIVE COMMENTS**

NOTICE IS HEREBY GIVEN that the Placer County Water Agency's Draft 2015 Urban Water Management Plan Update (Draft Update) is available for public review and comment, and that the Board of Directors of the Placer County Water Agency (PCWA) has set a public hearing to receive comments on the Draft Update. The public hearing is to be conducted on June 2, 2016 at 2:00 pm at the regularly scheduled meeting of the PCWA Board of Directors, which will be held at its Business Center. The Business Center is located at 144 Ferguson Road, Auburn, CA, 95604.

NOTICE IS FURTHER GIVEN that, as part of the public hearing on the Draft Update, PCWA will conduct a public hearing to: (1) adopt a method, pursuant to California Water Code (CWC) § 10608.20, for determining its urban water use target in 2020, (2) allow community input regarding its plan for achieving its urban water use target, and (3) consider the economic impacts of its plan for achieving its urban water use target.

Copies of the Draft Update are available for public review at

www.pcwa.net on and after Tuesday May 24, 2016 or available in hard copy at the Agency's Business Center for review on-site. Members of the public are invited to present their views on the Draft Update. Comments may be presented during the public hearing or may be submitted in writing prior to the hearing, addressed to Tony Firenzi, Deputy Director of Technical Services, mailed to Placer County Water Agency, PO Box 6570, Auburn, CA, 95604 or emailed to engineering@pcwa.net.

PUBLISHED IN AUBURN JOURNAL: MAY 19, 26, 2016

The above space is reserved for Court/County Filed Date Stamp

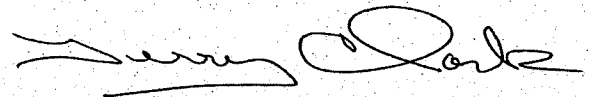
**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF CALIFORNIA
County of Placer**

I am a citizen of the United States and employed by a publication in the County aforesaid. I am over the age of eighteen years, and not a party to the mentioned matter. I am the principal clerk of **The Auburn Journal**, a newspaper of general circulation, in the **City of Auburn**, which is printed and published in the **County of Placer**. This newspaper has been judged a newspaper of general circulation by the Superior Court of the State of California, in and for the **County of Placer**, on the date of May 26, 1952 (Case Number 17407). The notice, of which the attached is a printed copy (set in type not smaller than nonpareil) has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

MAY 19, 26

I certify, under penalty of perjury, that the foregoing is true and correct.



Terry Clark

Dated in Auburn, California

MAY 26, 2016

**PROOF OF PUBLICATION
THE AUBURN JOURNAL
1030 HIGH STREET
AUBURN, CA 956-5910**

Tony Firenzi

From: Stephanie Wens
Sent: Tuesday, May 17, 2016 12:08 PM
To: Tony Firenzi
Subject: FW: PCWA Public Notice for 2016 Urban Water Management Plan

FYI...

From: Legals [mailto:Legals@goldcountrymedia.com]
Sent: Tuesday, May 17, 2016 11:22 AM
To: Stephanie Wens
Subject: RE: PCWA Public Notice for 2016 Urban Water Management Plan

Stephanie,

This order has been completed and is scheduled as requested, in **AJ 5/19, & 26, 2016** .

The order number is 16620072. If you have any questions on this order please include the order number in the email.

Thank you for your business,

Terry Clark :)
Sr. Legal Clerk
916 774-7902

From: Stephanie Wens [mailto:swens@pcwa.net]
Sent: Friday, May 13, 2016 4:28 PM
To: Legals
Cc: Brent Smith; bcmartin1@sbcglobal.net; Brian Rickards; Greg Young (gyoung@tullyandyoung.com)
Subject: PCWA Public Notice for 2016 Urban Water Management Plan

Attn: Terry
Auburn Journal
PO Box 5910
Auburn, CA 95603
Fax: 885.7235

Customer # 15PL480

RE: PCWA Public Notice for 2016 Urban Water Management Plan

Dear Terry:

Please publish the attached Public Notice in the legal notice section of the Auburn Journal on:

- Thursday, May 19,2016
- Thursday, May 26,2016

Telephone me at (530) 823-4886 if there is a problem with the requested publication dates.

Please confirm receipt of this email and order number along with proof of publication when available.

Thank you,

Stephanie Wens

Administrative Aide

Technical Services Department

Engineering Division

Placer County Water Agency

(530) 823-4801

(530) 823-4884 fax

swens@pcwa.net

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Appendix B-3: Copies of Notification Letter

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March 11, 2016
File No.: UWMP

Alan Johnston
Folsom Lake Mutual Water Company
6514 Mimus Lane
Granite Bay, CA 95746

Dear Alan Johnston:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Frenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Gerry LaBudde
Christian Valley Park CSD
PO Box 3138
Auburn, CA 95604

Dear Gerry LaBudde:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Rick LaFrance
Lakeview Hills Community Association
1739 Creekside Drive
Folsom, CA 95630

Dear Rick LaFrance:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Paul Schmidt
Hidden Valley Community Association
7072 Pine Gate Way
Granite Bay, CA 95746

Dear Paul Schmidt:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

President
Willo-Glen Water Co
PO Box 659
Loomis, CA 95650

Dear President:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

David Mintline
Dutch Flat Mutual Water Company
PO Box 50
Dutch Flat, CA 95714

Dear David Mintline:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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Einar Maisch, General Manager	WWW.PCWA.NET

March 11, 2016
File No.: UWMP

Max Bailey
Heather Glen CSD
PO Box 715
Applegate, CA 95703

Dear Max Bailey:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,



Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Norman Dean
Meadow Vista County Water District
PO Box 278
Meadow Vista, CA 95722

Dear Norman Dean:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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Einar Maisch, General Manager	WWW.PCWA.NET

March 11, 2016
File No.: UWMP

Gerry LaBudde
Weimar Water Co.
PO Box 598
Weimar, CA 95736

Dear Gerry LaBudde:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Jason Tiffany
Midway Heights County Water District
PO Box 596
Meadow Vista, CA 95722

Dear Jason Tiffany:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

David Muscarella
Golden Hills Mutual Water Co.
4061 Miners Drive
Loomis, CA 95650

Dear David Muscarella:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Rick Horst
City of Rocklin
3970 Rocklin Road
Rocklin, CA 95677

Dear Rick Horst:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Rick Angelocci
Town of Loomis
3665 Taylor Road
Loomis, CA 95650

Dear Rick Angelocci:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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Einar Maisch, General Manager	WWW.PCWA.NET

March 11, 2016
File No.: UWMP

Tim Rundel
City of Auburn
1225 Lincoln Way
Auburn, CA 95603

Dear Tim Rundel:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

Mark Miller
City of Colfax
PO Box 702
Colfax, CA 95713

Dear Mark Miller:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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	(800) 464-0030
Einar Maisch, General Manager	WWW.PCWA.NET

March 11, 2016
File No.: UWMP

Remleh Scherzinger
Nevada Irrigation District
1036 West Main Street
Grass Valley, CA 95945

Dear Remleh Scherzinger:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



March 11, 2016
File No.: UWMP

David Boesch
Placer County CEO
175 Fulweiler Avenue
Auburn, CA 95603

Dear David Boesch:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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	(800) 464-0030
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March 11, 2016
File No.: UWMP

Nav Gill
Sacramento County CEO
700 H Street, Room 7650
Sacramento, CA 95814

Dear Nav Gill:

The Placer County Water Agency (PCWA) is reviewing and updating its Urban Water Management Plan (UWMP) as required by the California Water Code (CWC). This effort must be completed by July 1, 2016. Pursuant to CWC §10621(b), PCWA must notify any city, county, and other interested parties within which it delivers water at least 60 days prior to a public hearing on the updated UWMP. This letter provides that notification. You will also be notified as to the hearing date, time, and location (anticipated to be held in June), and have access to a copy of the updated UWMP for review. The public hearing will allow: (1) community input regarding PCWA's implementation plan for included water conservation provisions, (2) consideration of the economic impacts of complying with CWC statutes governing the UWMP and (3) PCWA to adopt a method, pursuant to subdivision (b) of Section 10608.26, for determining its urban water use target.

If you have any questions regarding this notification or PCWA's UWMP update process, please contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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(530) 823-4850

Einar Maisch, General Manager (800) 464-0030 WWW.PCWA.NET

March 11, 2016

File No.: UWMP

Mr. Jim Mulligan
Water Utility Manager
City of Roseville
Environmental Utilities Department
2005 Hilltop Circle
Roseville, CA 95747

Dear Mr. Mulligan:

As you are well aware, 2015 UWMP updates are being prepared by both of our agencies for submittal to DWR by July 1, 2016. As a PCWA wholesale raw water customer, we want to officially notify you of our UWMP update efforts, pursuant to California Water Code §10621(b). But more importantly, we want to provide for your review our current representation of your future demands on our water system. We would expect that our representation would match values you will use to characterize our supply in your UWMP.

The values in the table below represent conditions derived based upon the following paragraphs. If you do not agree with this representation or with our explanation, please contact us immediately and we can collaborate on refined characterizations.

Basis¹: PCWA's current contract with the City of Roseville (Roseville) includes an annual entitlement of 30,000 acre-feet (ac-ft) of water from the Middle Fork Project (MFP). Roseville's available surface water supply from the MFP is subject to terms in its PCWA contract, combined with Water Forum Agreement restrictions that limit the amount of water that Roseville is able to divert from the American River.

According to Roseville's Water Forum Purveyor Specific Agreement, Roseville's American River diversion restrictions are dependent upon the projected March through November Unimpaired Inflow into Folsom Reservoir (UIFR). Roseville can divert 54,900 ac-ft/year from the American River in wet years (when projected March through November UIFR is greater than 950,000 ac-ft). During drier years when the UIFR is between 400,000 ac-ft and 950,000, Roseville decreases its diversion amounts from 54,900 ac-ft/year down to 39,800 ac-ft/year. During the driest years, when projected March through November UIFR is less than 400,000 ac-ft, the Water Forum signatories have agreed to meet and confer to develop a plan for water use.

¹ The following language will likely be included as drafted within our 2015 UWMP to provide needed explanatory text.

The following buildout uses of PCWA's MFP supply have been assumed from these terms of American River diversion for the City of Roseville:

- Normal Year Conditions – 30,000 ac-ft
- Single-Dry Year Conditions – 23,800 ac-ft
- Multi-Dry Year Conditions – 30,000 ac-ft

PCWA characterizes a single-dry year event as more critical, less supply, than a multi-dry year event. We believe this characterization to be more fitting in the American River water supply system, which tends to operate on a year-to-year basis for water supply.

The MFP supply will be delivered to Roseville pursuant to its contract with PCWA and Water Forum Agreement commitments, as described above. PCWA intends to meet all obligations of its contract with Roseville as future conditions and contract terms evolve. Based on Roseville's 2010 UWMP, PCWA's interpretation of Roseville's build-out demand for MFP water in wet and dry years is 30,000 ac-ft, decreasing to 23,800 ac-ft in driest years.

Please let us know if we have, or have not, characterized these buildout demands correctly. If possible, we would like to be provided a growth curve of these demands starting in 2020 and going to buildout in 5-year increments. Please provide this for inclusion in our UWMP.

We hope that by providing this information early in our UMWP development process we can quickly obtain your review and concurrence to facilitate our continued analytical work. The values provided above represent our planned characterization we have used to assess the reliability of our deliveries as part of our UWMP process and for our Middle Fork water right permit EIR effort.

In addition to the above coordination actions, we also want to notify you that we will hold a public hearing to adopt our 2015 UWMP and will provide the specific information regarding date, time, and location (anticipated to be held in June) at a later time.

If you have any questions or concerns regarding our current representation of your demands, or ideas for additional collaboration steps, please contact me at (530) 823-4886. We appreciate your on-going efforts to help us both incorporate the most representative information in our respective UWMPs.

Sincerely,



Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh

Tony Firenzi

From: Tony Firenzi
Sent: Wednesday, April 27, 2016 4:56 PM
To: 'McKinney, Kelye'
Cc: Mulligan, Jim; Boak, Colleen; Brent Smith; Andy Fecko; Ben Ransom
Subject: RE: UWMP

Kelye,

We will revise the value to 30,000 as you requested.

Regards,
Tony

-----Original Message-----

From: McKinney, Kelye [mailto:KMckinney@roseville.ca.us]
Sent: Wednesday, April 27, 2016 7:33 AM
To: Tony Firenzi <tfirenzi@pcwa.net>
Cc: Mulligan, Jim <JMulligan@roseville.ca.us>; Boak, Colleen <CBoak@roseville.ca.us>; Brent Smith <BSmith@pcwa.net>
Subject: UWMP

Hi Tony I understand you sent Roseville a letter on what is being put in your UWMP for Roseville supplies. Please use 30,000 in all year types. That is what we have been showing in past UWMPs and on our 2015 update which we took to our PUC last night.

Please let me know if we need to discuss at all.

Thanks
Kelye

Sent from my iPhone



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P.O. Box 6570
Auburn, CA 95604
PHONE
(530) 823-4850
(800) 464-0030
WWW.PCWA.NET

March 11, 2016
File No.: UWMP

Keith Durkin
Assistant General Manager
San Juan Water District
9935 Auburn Folsom Road
Granite Bay, CA 95746

Dear Mr. Durkin:

As you are well aware, 2015 UWMP updates are being prepared by both of our agencies for submittal to DWR by July 1, 2016. As a PCWA wholesale raw water customer, we want to officially notify you of our UWMP update efforts, pursuant to California Water Code §10621(b). But more importantly, we want to provide for your review our current representation of your future demands on our water system. We would expect that our representation would match values you will use to characterize our supply in your UWMP.

The values in the table below represent conditions derived based upon the following paragraphs. If you do not agree with this representation or with our explanation, please contact us immediately and we can collaborate on refined characterizations.

Basis¹: PCWA's current contract with San Juan Water District (SJWD) includes an annual entitlement of 25,000 acre-feet (ac-ft) of water from the Middle Fork Project (MFP). SJWD's available surface water supply from the MFP is subject to terms in its PCWA contract, combined with Water Forum Agreement restrictions that limit the amount of water that SJWD is able to divert from the American River. SJWD also has an agreement with the City of Roseville to supply 4,000 ac-ft of the District's PCWA contract supply to the City in wet years, as defined in the Water Forum Agreement.

According to SJWD's Water Forum Purveyor Specific Agreement, SJWD's American River diversion restrictions are dependent upon the projected March through November Unimpaired Inflow into Folsom Reservoir (UIFR). SJWD can divert its full 82,200 ac-

¹ The following language will likely be included as drafted within our 2015 UWMP to provide needed explanatory text.

ft/year from the American River in wet years (when projected March through November UIFR is greater than 950,000 ac-ft). This would include the 25,000 ac-ft MFP supply from PCWA. During drier years when the UIFR is between 400,000 ac-ft and 950,000, SJWD decreases its diversion amounts from 82,200 ac-ft/year to 54,200 ac-ft/year, which includes a reduction of the MFP supply to 10,000 ac-ft. During the driest years, when projected March through November UIFR is less than 400,000 ac-ft, the Water Forum signatories have agreed to meet and confer to develop a plan for water use.

The following buildout uses of PCWA's MFP supply have been assumed from these terms of American River diversion for San Juan Water District:

- Normal Year Conditions – 12,461 ac-ft plus 4,000 ac-ft to the City for a total of 16,461 ac-ft
- Single-Dry Year Conditions – 10,000 ac-ft
- Multi-Dry Year Conditions – 12,461 ac-ft

PCWA characterizes a single-dry year event as more critical, less supply, than a multi-dry year event. We believe this characterization to be more fitting in the American River water supply system, which tends to operate on a year-to-year basis for water supply.

The MFP supply will be delivered to SJWD pursuant to its contract with PCWA and Water Forum Agreement commitments, as described above. In the future, if SJWD amends its current Warren Act Contract with the U.S. Bureau of Reclamation to include delivery of MFP water into its Sacramento County retail service area, PCWA will reevaluate SJWD's build-out demand and update in future UWMP projections. PCWA intends to meet all obligations of its contract with SJWD as future conditions and contract terms evolve.

Based on SJWD's 2010 UWMP, PCWA's interpretation of SJWD's build-out demand for MFP water in its Placer County retail service area in wet years is 12,461 ac-ft² plus an additional 4,000 ac-ft (Roseville supply) and 10,000 ac-ft in driest years. For planning purposes, PCWA is assuming the full build-out demand will occur by 2020, and continue to exist throughout PCWA's UWMP planning horizon. Please let us know if this assumption is incorrect.

We hope that by providing this information early in our UMWP development process we can quickly obtain your review and concurrence to facilitate our continued analytical work. The values provided above represent our planned characterization we have used to assess the reliability of our deliveries as part of our UWMP process and for our Middle Fork water right permit EIR effort.

² The Placer County portion is approximately 75% of SJWD's retail service area. SJWD's 2010 UWMP identified build-out retail demand to be 16,615 ac-ft, with 75% equal to 12,461 ac-ft.

In addition to the above coordination actions, we also want to notify you that we will hold a public hearing to adopt our 2015 UWMP and will provide the specific information regarding date, time, and location (anticipated to be held in June) at a later time.

If you have any questions or concerns regarding our current representation of your demands, or ideas for additional collaboration steps, please contact me at (530) 823-4886. We appreciate your on-going efforts to help us both incorporate the most representative information in our respective UWMPs.

Sincerely,



Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh

Tony Firenzi

From: Tony Firenzi
Sent: Thursday, March 24, 2016 1:35 PM
To: 'Greg Young' (gyoung@tullyandyoung.com)
Cc: Brian Rickards; Brian Martin (Home) (bcmartin1@sbcglobal.net)
Subject: FW: PCWA UWMP

Greg,

Response from SJWD, for your use.

Tony

From: Keith Durkin [mailto:kdurkin@sjwd.org]
Sent: Thursday, March 24, 2016 1:33 PM
To: Lisa Brown <lbrown@sjwd.org>
Cc: Tony Firenzi <tfirenzi@pcwa.net>
Subject: RE: PCWA UWMP

Lisa – please ask KJ if they have our retail population information by county.

Tony – you are correct that our Placer County service area is nearly built-out. Table 3-1b indicates the population isn't even going to increase by 10% by 2040. This suggests the area is at least 90% built-out. Considering that, your assumptions are probably within the margin of error. Also, it appears our consultant used the Granite Bay Community Plan for growth rate assumptions. You may want to reference that document for more information.

From: Tony Firenzi [mailto:tfirenzi@pcwa.net]
Sent: Thursday, March 24, 2016 1:23 PM
To: Keith Durkin
Cc: Lisa Brown
Subject: RE: PCWA UWMP

Thanks Keith and Lisa! The assumption of buildout by 2020 was only for SJWD in Placer County, which I thought may almost be built-out at this point. Are you able to provide a table similar to that below for only Placer County?

Thanks again!

Tony

From: Keith Durkin [mailto:kdurkin@sjwd.org]
Sent: Thursday, March 24, 2016 1:19 PM
To: Tony Firenzi <tfirenzi@pcwa.net>
Cc: Lisa Brown <lbrown@sjwd.org>
Subject: PCWA UWMP

Hi Tony,

Thank you for your letter dated March 11 regarding your 2015 UWMP update and the information you intend to include that quantifies SJWD’s use of MFP supply. We agree with the assumptions you’ve used for current conditions and water use projections through build-out. However, I have two comments on the information you provided. First, you state that for planning purposes, PCWA is assuming full build-out demand of our Placer County retail service area will occur by the year 2020. Our UWMP, which includes both our Placer and Sacramento County service areas, does not assume this aggressive growth rate. See table 3-1b from our plan provided below.

Table 3-1b: Retail: Population – Current and Projected						
Population Served	2015	2020	2025	2030	2035	2040 _(opt)
	29,444	30,099	30,769	31,454	32,155	32,870
NOTES: Growth projections based on a weighted average of 75 percent of the Granite Bay Community Plan growth rate and 25 percent of the SACOG growth rate for Orangevale.						

Second, we completely agree with the statement regarding amending our Warren Act Contract to allow use of our MFP water within our Sacramento County retail and wholesale service areas (note addition of wholesale). We have started this discussion with Reclamation. Amending our Warren Act Contract will provide greater flexibility for us to manage our water supply resources, and may provide opportunities for greater participation in plans for developing a regional water bank, among other options.

Again, thank you for providing your UWMP information for our review.

Keith Durkin, P.E. | Assistant General Manager
 San Juan Water District | sjwd.org
 Main: 916-791-0115 | Direct: 916-791-6906



Tony Firenzi

From: Lisa Brown <lbrown@sjwd.org>
Sent: Wednesday, April 06, 2016 2:33 PM
To: Tony Firenzi
Cc: Keith Durkin
Subject: San Juan/PCWA contract summary

Tony,

Thank you for the call this morning. We wanted to summarize our understanding of the discussion:

1. San Juan Water District would like to maintain the 25,000 AF contract amount with PCWA. However, based on the 2015 Urban Water Management Plan demand projections through 2040, San Juan is showing total retail demand of 20,672 AF (see Table 4-3b below). Assuming that 75% of the total demand is in the Placer County portion of our retail service area, San Juan is projecting contract use of 15,504 AF for San Juan's Placer County retail service area, through 2040. San Juan is currently working with the US Bureau of Reclamation on getting a Warren Act contract amendment to allow this contract water be used throughout San Juan's service area (to include Sacramento County). If this occurs, future Urban Water Management Plans will be amended to reflect increased PCWA contract water use demands.
2. In addition to the above mentioned demands, the 4,000 AF of wet year contract water to Roseville will remain.
3. In dry year conditions, San Juan will utilize the PCWA contract to help meet water forum cutbacks. San Juan assumes that a continued 15,500 AF of water could be used in Placer County regardless of condition and that San Juan could claim a contractual reduction in use of 9,500 AF in dry year conditions to help meet our water forum commitment.

In summary, we propose the following demand projections:

Normal year conditions – 15,500 AF plus 4,000 AF to the City of Roseville for a total of 19,500 AF

Single dry year conditions – 15,500 AF

Multi-dry year conditions – 15,500 AF

Table 4-3b: Retail: Total Water Demands

	2015	2020	2025	2030	2035
Potable and Raw Water <i>From</i> <i>Tables 4-1 and 4-2</i>	9,610	17,030	18,006	18,851	19,706
Recycled Water Demand <i>From</i> <i>Table 6-4</i>	0	0	0	0	0
TOTAL WATER DEMAND	9,610	17,030	18,006	18,851	19,706

NOTES: Projected Water Use in units of AFY.

Sincerely,
Lisa

Lisa Brown | Customer Service Manager
San Juan Water District | sjwd.org
Main: 916-791-0115 | Direct: 916-791-6948
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Tony Firenzi

From: Tony Firenzi
Sent: Wednesday, April 13, 2016 7:31 AM
To: 'Keith Durkin'
Cc: Lisa Brown
Subject: RE: UWMP
Attachments: WFA Intro Table.pdf; SanJuan Demand.xlsx

Thanks. Attached are documents referenced by our water rights consultant in developing their dry year supply assumption for SJWD of 10,000 af. Happy to discuss anytime.

From: Keith Durkin [mailto:kdurkin@sjwd.org]
Sent: Wednesday, April 13, 2016 6:38 AM
To: Tony Firenzi <tfirenzi@pcwa.net>
Cc: Lisa Brown <lbrown@sjwd.org>
Subject: UWMP

Tony,

I received your voicemail. I'm on vacation this week, but I passed it along to Lisa. She and Shauna may give you a call for clarification and discussion. Otherwise we can talk when I get back Monday.

Thanks.

Keith Durkin, P.E. | Assistant General Manager
San Juan Water District | sjwd.org
Main: 916-791-0115 | Direct: 916-791-6906

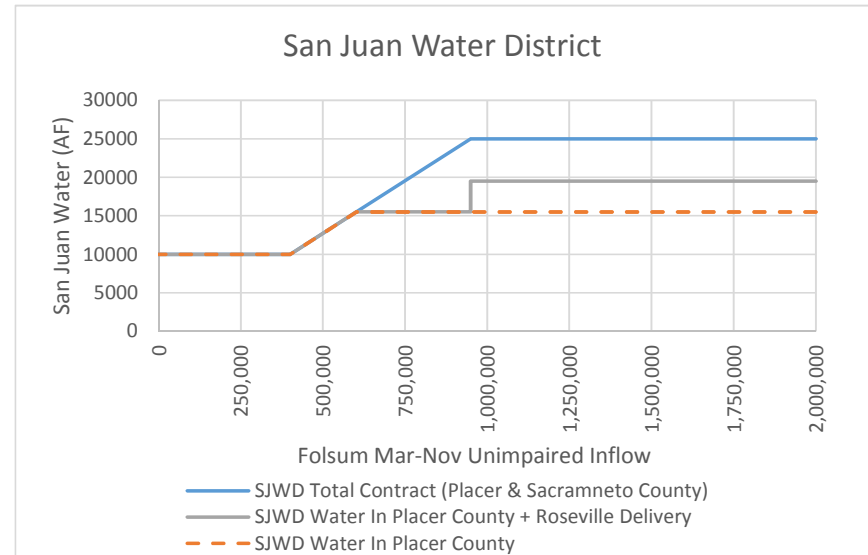


	SJWD Total Contract (Placer & County	SJWD Water In Placer County	SJWD Water In Placer County + County +	Line Equation
	2000000	25000	15,500	19,500
	1500000	25000	15,500	19,500
	950000.1	25000	15,500	19,500
	950000	25000	15,500	15500
Solve	601666.667	15500	15500	10000
	400000	10000	10,000	10,000
	0	10000	10,000	10,000

Y=Mx+B

M= 0.027273

B= -909.091



1995 AND PROPOSED YEAR 2030 SURFACE WATER DIVERSIONS

Note: The diversions described below, combined with the dry year actions, will meet each supplier's customers' needs to the year 2030.

AMERICAN RIVER DIVERSIONS—UPSTREAM OF NIMBUS

WATER SUPPLIER/ ORGANIZATION	1995 BASELINE (1)	2030 DIVERSION (wet/ave years)	2030 DIVERSION (drier years)	2030 DIVERSION (driest years)(2)
City of Folsom	20,000 AF (19)	34,000 AF (3)	Decreasing from 34,000 AF to 22,000 AF (4)	20,000 AF (5)
Northridge Water District (17)	0 AF	29,000 AF (9)	0 AF (10)	0 AF
Placer County Water Agency (6) (7) [Subject to resolution of remaining issues (21)]	8,500 AF	35,500 AF (3)	Continue to divert 35,500 AF, with a replacement to the river equivalent to their drier diversions above baseline. The drier the year, the more water would be replaced up to 27,000 AF (4) (20)	Continue to divert 35,500 AF, with a replacement of 27,000 AF to the river. (20)
City of Roseville (7)	19,800 AF	54,900 AF (3)	Decreasing from 54,900 AF to 39,800 AF with a replacement to the river equivalent to their drier diversions above baseline. The drier the year, the more water would be replaced up to 20,000 AF (4)	Continue to divert 39,800 AF, with a replacement of 20,000 AF to the river.

1995 AND PROPOSED YEAR 2030 SURFACE WATER DIVERSIONS (continued)

Note: The diversions described below, combined with the dry year actions, will meet each supplier's customers' needs to the year 2030.

AMERICAN RIVER DIVERSIONS—UPSTREAM OF NIMBUS

WATER SUPPLIER/ ORGANIZATION	1995 BASELINE (1)	2030 DIVERSION (wet/ave years)	2030 DIVERSION (drier years)	2030 DIVERSION (driest years) (2)
San Juan WD & Consortium in Sacramento County (Citrus Heights WD, Fair Oaks WD, Orange Vale Water Co)	44,200 AF (8)	57,200 AF (3)	Decreasing from 57,200 to 44,200 AF (4)	44,200 AF
San Juan WD (Placer County)	10,000 AF	25,000 AF (3)	Decreasing from 25,000 to 10,000 AF (4)	10,000 AF
South Sacramento County Agriculture (includes Clay WD, Omochumne-Hartnell WD, Galt ID, & Sacramento County Farm Bureau)	0 AF	35,000 AF (9)	0 AF (10)	0 AF
SMUD	15,000 AF (11)	30,000 AF (3)	Decreasing from 30,000 to 15,000 AF (4)	15,000 AF

1995 AND PROPOSED YEAR 2030 SURFACE WATER DIVERSIONS (continued)

AMERICAN RIVER DIVERSIONS—BETWEEN NIMBUS & THE MOUTH

WATER SUPPLIER/ ORGANIZATION	1995 BASELINE (1)	2030 DIVERSION (wet/ave years)	2030 DIVERSION (drier years)	2030 DIVERSION (driest years) (2)
Carmichael WD (18)	12,000 AF	12,000 AF	12,000 AF	12,000 AF
City of Sacramento	50,000 AF	310 CFS (12) (13)	90,000 AF (15)	50,000 AF

SACRAMENTO RIVER DIVERSIONS

WATER SUPPLIER/ ORGANIZATION	1995 BASELINE	2030 DIVERSION (wet/ave years) (14)	2030 DIVERSION (drier years) (14)	2030 DIVERSION (driest years) (14)
City of Sacramento	45,000 AF	290 CFS (13)	290 CFS (13)	290 CFS (13)
County of Sacramento	0 AF	Up to 78,000 AF (16)	Up to 78,000 AF (16)	Up to 78,000 AF (16)
Placer County Water Agency (6) [Subject to resolution of remaining issues (21)]	0 AF	35,000 AF	35,000 AF	35,000 AF
Natomas Central Mutual Water Co. within Sacramento County	53,000 AF	45,600 AF	45,600 AF	45,600 AF

1995 AND PROPOSED YEAR 2030 SURFACE WATER DIVERSIONS — NOTES

1. Baseline: Baseline means the historic maximum amount of water that suppliers diverted from the American River in any one year through the year 1995 or in certain appropriate instances other amounts specified in a purveyor's specific agreement. Clarifications pertaining to the San Juan Water District, SMUD and the City of Folsom are noted in footnotes 8, 11, and 19.
2. Drier Years (i.e. Conference Years): Years when the projected March through November Unimpaired Inflow to Folsom Reservoir is less than 400,000 acre feet. Conference years are those years which require diverters and others to meet and confer on how best to meet demands and protect the American River.
3. Wet/Ave Years: As it applies to these diverters, years when the projected March through November Unimpaired Inflow to Folsom Reservoir is greater than 950,000 acre feet.
4. Drier Years: As it applies to these diverters, years when the projected March through November Unimpaired Inflow to Folsom Reservoir is less than 950,000 acre feet.
5. In the Conference Years the City of Folsom would reduce diversions by an additional 2,000 acre feet below its baseline to 18,000 AF through additional conservation to achieve recreational benefits to Folsom Reservoir and fishery benefits to the Lower American River.
6. PCWA would receive support for an American River diversion of 35,500 AF (8,500 AF existing and 27,000 AF additional) in wetter and average years and a new Sacramento/Feather Diversion of 35,000 AF. PCWA is willing to exchange 35,000 AF of its American River water for Sacramento and/or Feather River water provided the terms of such exchange do not result in any diminution of PCWA's water supply or an increased cost to PCWA.
7. For these suppliers, some or all of their water supply diverted from the American River or Folsom Reservoir in the drier and drier years could be replaced with water released from the Middle Fork Project Reservoirs by reoperating those reservoirs. Reoperation of the MFP reservoirs causes the reservoirs to be drawn down below historical operational minimum pool volumes.
8. The baseline for SJWD and their wholesale service area within Sacramento County is the full amount of their entitlements (CVP contract and water rights) which they exercised in 1995.
9. Wet/Ave Years: As it applies to these diverters, years when the projected March through November Unimpaired Inflow to Folsom Reservoir is greater than 1,600,000 acre feet.
10. Drier Years: As it applies to these diverters, years when the projected March through November Unimpaired Inflow to Folsom Reservoir is less than 1,600,000 acre feet.
11. The baseline for SMUD is the 1995 diversion amount which reflects the shut down of Rancho Seco Power Plant.
12. Wet/Ave Years: As it applies to the City of Sacramento, time periods when the flows bypassing the E. A. Fairbairn Water Treatment Plant diversion exceed the "Hodge flows."
13. For modeling purposes, it is assumed that the City of Sacramento's total annual diversions from the American and Sacramento River in year 2030 would be 130,600 AF for use within the City limits.
14. As it applies to these diverters, there is no Water Forum limitation to diversions from the Sacramento River.

1995 AND PROPOSED YEAR 2030 SURFACE WATER DIVERSIONS — NOTES (continued)

- 15.** Drier Years: As it applies to the City of Sacramento, time periods when the flows bypassing the City's E. A. Fairbairn Water Treatment Plant diversion do not exceed the "Hodge flows." Within its existing capacity, the City can divert from the American River 155 cfs in June, July and August, 120 cfs in January through May and September, and 100 cfs in October through December.
- 16.** The total for the County of Sacramento (78,000 AF) represents 45,000 AF of firm entitlement and 33,000 AF of intermittent water. The intermittent supply is subject to reduction in the drier and driest years. To reduce reliance on intermittent surface water, the County of Sacramento intends to pursue additional firm supplies.
- 17.** Northridge Water District (NWD) and other signatories have agreed that for an interim ten year period, NWD would be able to divert PCWA water in years when the projected March through November Unimpaired Inflow to Folsom Reservoir is greater than 950,000 acre feet. After the ten-year period, unless the State Water Resources Control Board issues a subsequent order, NWD will divert up to 29,000 acre feet of water from Folsom Reservoir under the NWD-PCWA contract only in years when the projected March through November unimpaired inflow into Folsom Reservoir is greater than 1,600,000 AF.
- 18.** Carmichael Water District will divert and use up to their license amount of 14,000 acre feet. By the year 2030, it is most likely that the water demand for the District will be reduced to their historic baseline level of 12,000 acre feet by implementation of Urban Water Conservation Best Management Practices. Signatories to the *Water Forum*
- Agreement* acknowledge and agree that CWD shall not relinquish control of or otherwise abandon the right to any quantity it has foregone delivery and/or diversion of under this *Agreement*, and shall retain the right (if any) to transfer that water for other beneficial uses, after that water has served its purpose of assisting in the implementation of the Improved Pattern of Fishery Flow Releases, for diversion or redirection at, near, or downstream of the confluence of the Lower American River and the Sacramento River. The signatories also recognize that any such transfer of water by CWD must be in accordance with applicable provisions of federal and state law.
- 19.** This is an agreed upon amount which is within the historic diversion data and is equivalent to Folsom's treatment capacity as of 1999.
- 20.** Replacement of water to the river as a dry year action as provided in PCWA's specific agreement is contingent on PCWA's ability to sell this water to the Department of the Interior to meet Anadromous Fishery Restoration Program goals for the Lower American River or to other parties for their use after it flows down the Lower American River.
- 21.** Remaining issues which are being negotiated are: 1) environmentalists' support for PCWA pumps at Auburn, 2) how water conservation Best Management Practice #5 (Large Landscape Water Audits and Incentives for Commercial, Industrial, Institutional and Irrigation Accounts) will be implemented, 3) environmentalists' support for conditions related to release of replacement water in drier and driest years.

Table 7-3: Wholesale and Retail: Single Dry Year Supply and Demand Calculations

	2020	2025	2030	2035	2040
Existing Supply Contracts					
Water Rights	33,000	33,000	33,000	33,000	33,000
USBR CVP Folsom Lake Contract	24,200	24,200	24,200	24,200	24,200
PCWA Contract	25,000	25,000	25,000	25,000	25,000
Total Supply Contracts	82,200	82,200	82,200	82,200	82,200
Dry Year Supply Reductions					
Water Rights	0	0	0	0	0
Water Forum Agreement Maximum Reductions ⁽¹⁾	-28,000	-28,000	-28,000	-28,000	-28,000
Total Existing Supplies	54,200	54,200	54,200	54,200	54,200
Demand					
Wholesale Demand ⁽²⁾	51,055	52,813	54,495	56,235	57,997
20x2020 Reduction in Retail Demand ⁽³⁾	-1,237	-1,309	-1,375	-1,444	-1,513
Reduction from WSCP ⁽⁴⁾	-7,473	-7,726	-7,968	-8,219	-8,473
Demand w/ Conservation	42,345	43,779	45,152	46,573	48,012
Supply-Demand Balance	11,855	10,421	9,048	7,627	6,188
Supplemental Groundwater					
Additional Wholesale Groundwater Pumping ⁽⁵⁾	0	0	0	0	0
Antelope Booster Pump-Back Station Groundwater (SSWD) ⁽⁶⁾	0	0	0	0	0
Total Supplemental Groundwater	0	0	0	0	0

NOTES:

1. Assumes projected inflow to Folsom Reservoir is between 400,000 AFY and 950,000 AFY (non-Conference Year). SJWD is a signatory to the Water Forum Agreement which can reduce total surface water diversion in proportion to the water level in Folsom Lake to as low as 54,200 AF. The decrease in diversion amounts will be met by a combination of reductions of PCWA and USBR CVP supply, both contractually and at the District's discretion.
2. Projected wholesale water demands from Chapter 4, Table 4-3a, minus water supply to City of Roseville (4,000 AF).
3. Reduction needed to meet retail SBX7-7 compliance calculated in Chapter 5.
4. 15 percent reductions from wholesale demand by implementing WSCP Stage 3. See Chapter 8, Water Shortage Contingency Planning.
5. Groundwater supply from wholesale customer agencies used to replace surface water supply reductions per the Water Forum Agreement and the WSCP in Chapter 8.
6. SSWD groundwater via the Antelope Booster Pump-Back Station is intended to be provided during the summer months in dry years or when SJWD's surface water supplies are reduced.

If you have any additional questions/concerns, please feel free to give me a call.

Sincerely,

Lisa

Lisa Brown | Customer Service Manager

San Juan Water District | sjwd.org

Main: 916-791-0115 | Direct: 916-791-6948

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Tony Firenzi

From: Keith Durkin <kdurkin@sjwd.org>
Sent: Friday, April 29, 2016 3:49 PM
To: Tony Firenzi
Cc: Lisa Brown
Subject: RE: SJWD UWMP

and I will add we do not have a problem with your plan assumption that we are reduced to 10,000 AF of our 25,000 AF PCWA water in dry years. That is not inconsistent with our note 1.

From: Lisa Brown
Sent: Friday, April 29, 2016 3:43 PM
To: 'Tony Firenzi'
Cc: Keith Durkin
Subject: SJWD UWMP

Hi Tony,

In response to your call to Keith, I wanted to follow up with the strategy we incorporated into our Plan. In single year and multiple dry year scenarios we are being extremely conservative by stating we are reducing supply by the maximum water forum agreement diversion and we are meeting this reduction by a combination of reductions of PCWA and USBR CVP supply. See table below:



PLACER COUNTY WATER AGENCY
SINCE 1957

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Mike Lee, District 3
Robert Dugan, District 4
Joshua Alpine, District 5

Einar Maisch, General Manager

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144 Ferguson Road
MAIL
P.O. Box 6570
Auburn, CA 95604

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(530) 823-4850
(800) 464-0030

WWW.PCWA.NET

March 11, 2016
File No.: UWMP

Mr. Rob Roscoe
General Manager
Sacramento Suburban Water District
3701 Marconi Ave #100
Sacramento, CA 95821

Dear Mr. Roscoe:

As you are well aware, 2015 UWMP updates are being prepared by both of our agencies for submittal to DWR by July 1, 2016. As a PCWA wholesale raw water customer, we want to officially notify you of our UWMP update efforts, pursuant to California Water Code §10621(b). But more importantly, we want to provide for your review our current representation of your future demands on our water system. We would expect that our representation would match values you will use to characterize our supply in your UWMP.

The values in the table below represent conditions derived based upon the following paragraphs. If you do not agree with this representation or with our explanation, please contact us immediately and we can collaborate on refined characterizations.

Basis¹: PCWA's current contract with Sacramento Suburban Water District (SSWD) includes an annual entitlement of 29,000 acre-feet (ac-ft) of water from the Middle Fork Project (MFP). SSWD's available surface water supply from the MFP is subject to terms in its PCWA contract, combined with Water Forum Agreement restrictions that limit the amount of water that SSWD is able to divert from the American River.

According to SSWD's Water Forum Purveyor Specific Agreement, SSWD's American River diversion restrictions are dependent upon the projected March through November Unimpaired Inflow into Folsom Reservoir (UIFR). SSWD can divert 29,000 ac-ft/year of MFP water from Folsom Reservoir in wet years (when projected March through November UIFR is greater than 1,600,000 ac-ft). During drier years when the UIFR is less than 1,600,000 ac-ft, SSWD does not receive MFP water from PCWA.

¹ The following language will likely be included as drafted within our 2015 UWMP to provide needed explanatory text.

MFP water will be delivered pursuant to SSWD's contact with PCWA and Water Forum Agreement commitments, as described above. PCWA intends to meet all obligations of its contract with SSWD as future conditions and contract terms evolve. Based on SSWD's 2010 UWMP, PCWA's interpretation of SSWD's build-out demand for MFP water in wet years is 29,000 ac-ft, reducing to 0 ac-ft in drier and driest years.

For planning purposes, PCWA is assuming the full build-out demand will occur by 2020, and continue to exist throughout PCWA's UWMP planning horizon. Please let us know if this assumption is incorrect.

We hope that by providing this information early in our UMWP development process we can quickly obtain your review and concurrence to facilitate our continued analytical work. The values provided above represent our planned characterization we have used to assess the reliability of our deliveries as part of our UWMP process and for our Middle Fork water right permit EIR effort.

In addition to the above coordination actions, we also want to notify you that we will hold a public hearing to adopt our 2015 UWMP and will provide the specific information regarding date, time, and location (anticipated to be held in June) at a later time.

If you have any questions or concerns regarding our current representation of your demands, or ideas for additional collaboration steps, please contact me at (530) 823-4886. We appreciate your on-going efforts to help us both incorporate the most representative information in our respective UWMPs.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Anthony L. Firenzi', is written over a faint, illegible typed name.

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



PLACER COUNTY WATER AGENCY
SINCE 1957

BOARD OF DIRECTORS

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Joshua Alpine, District 5

Einar Maisch, General Manager

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WWW.PCWA.NET

March 29, 2016
File No.: UWMP

Audie Foster
Director of State Operations Northern District
4701 Beloit Drive
Sacramento, CA 95838

Dear Mr. Foster:

As you are well aware, 2015 UWMP updates are being prepared by both of our agencies for submittal to DWR by July 1, 2016. As a PCWA wholesale treated water customer, we want to officially notify you of our UWMP update efforts, pursuant to California Water Code §10621(b). But more importantly, we want to provide for your review our current representation of your future demands on our water system. We would expect that our representation would match values you will use to characterize our supply in your UWMP.

We have created two planning subareas for the California-American Water Company franchise area in Placer County: (1) "Dry Creek East" to cover existing demand areas and new developments east of the Placer Vineyards project and (2) "Dry Creek West" to cover the entirety of the Placer Vineyard project. The demands of these two planning subareas are described as follows.

Dry Creek East

This area is currently served by three metering points at Crowder Lane, PFE Road, and the entrance to the American Vineyard Village development. Existing demands based on 2013 records are 1,093 acre-feet annually (AFA) and approximately two million gallons on the maximum single day of the year.

In this subarea there are several proposed developments where demands were not existent in the stated 2013 amount, which include Riolo Vineyards, Whisper Creek, Morgan Place, Hidden Crossings, and American Vineyard Village. The estimated demands for these developments are as follows:

- Riolo Vineyards – 1,736 AFA
- Whisper Creek – 66 AFA

- Morgan Place – 55 AFA
- Hidden Crossings – 55 AFA
- American Vineyard Village – 90 AFA
- Total new demand – 2,002 AFA

The total build-out demand for the Dry Creek East subarea is then 3,095 AFA. This estimate is based on pre-existing demand factors. If we assume a reduction of existing demand by 10 percent and new demand by 30 percent, this estimate becomes 2,385 AFA, the value being assumed in our UWMP for this subarea.

Dry Creek West

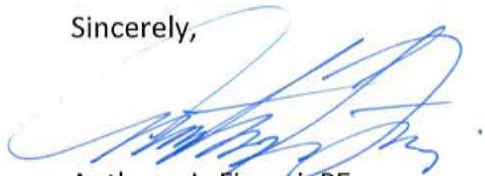
This is a very large masterplan development covering the western majority of your franchise area. A study by West Yost Associates in 2006 estimated the build-out demand of this project to be 11,500 AFA. Based on modern codes and water use trends, we have tempered this estimate down to 7,212 AFA.

We hope that by providing this information early in our UWMP development process we can quickly obtain your review and concurrence to facilitate our continued analytical work. The values provided above represent our planned characterization we have used to assess the reliability of our deliveries as part of our UWMP process and for our Middle Fork water right permit EIR effort.

In addition to the above coordination actions, we also want to notify you that we will hold a public hearing to adopt our 2015 UWMP and will provide the specific information regarding date, time, and location (anticipated to be held in June) at a later time.

If you have any questions or concerns regarding our current representation of your demands, or ideas for additional collaboration steps, please contact me at (530) 823-4886. We appreciate your on-going efforts to help us both incorporate the most representative information in our respective UWMPs.

Sincerely,



Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh

Tony Firenzi

From: Tony Firenzi
Sent: Tuesday, April 26, 2016 4:58 PM
To: 'audie.foster@amwater.com' (audie.foster@amwater.com)
Cc: 'Greg Young' (gyoung@tullyandyoung.com); Brent Smith; Brian Rickards; Brian Martin (Home) (bcmartin1@sbcglobal.net)
Subject: Revision to Placer Vineyard Demand Estimate
Attachments: CAW 60-day notice letter - signed.pdf

Audie,

We had sent you the attached letter with demand estimates for your current service area in Dry Creek East and the Placer Vineyards project (Dry Creek West). Through further work and refinement of our demand estimates, PCWA has opted to utilize the demand estimate from the Placer Vineyards Water Distribution Master Plan from March 2006 as a source for our UWMP. However, we have taken the value from this master plan and reduced it by 30% to account for more modern water use efficiency trends. The result of this is a value of 8,440 acre-feet per year estimated at the Cal-Am point of delivery from PCWA for this project. This is an increase from the value of 7,212 acre-feet stated in the attached letter.

Please let us know if you have any comments or revisions to these values. Also, we are anticipating an absorption curve of the Placer Vineyards demand at the end of April as we discussed. Please let us know if you need anything further from us.

Regards,

Tony Firenzi, PE | Deputy Director of Technical Services

Placer County Water Agency | www.pcwa.net | P.O. Box 6570 | Auburn, CA 95604-6570
Ph (530) 823-4886 | Fx (530) 823-4884 | tfirenzi@pcwa.net



March 17, 2016
File No.: UWMP

Mr. Matthew Brower, City Manager
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

Dear Mr. Brower:

As you are well aware, 2015 Urban Water Management Plan (UWMP) updates are being prepared by both of our agencies for submittal to DWR by July 1, 2016. As a PCWA wholesale treated water customer, we want to officially notify you of our UWMP update efforts, pursuant to California Water Code §10621(b).

But more importantly, we want to coordinate with you regarding representation of your future demands for our water supplies. The City's input and concurrence with our characterization of your future water demands is important for our water supply planning.

Typically, we would suggest a meeting or other communications with you or your staff to discuss these matters. However, we are aware that we both have hired Tully & Young to prepare our respective UWMPs. Given this commonality and our trusted working relationship with Tully & Young and the City, we are confident that the coordination of the City's demands as well as the reliability of our supplies (for use in the City's UWMP) will efficiently occur as part of Tully & Young's efforts on both our behalf.

Please let me know if you concur, or if there is a specific contact at the City I should contact for further discussions.

In addition to the above coordination, we also want to notify you that we will hold a public hearing to adopt our 2015 UWMP and will provide the specific information regarding date (likely at our early June Board meeting), time, and location at a later time.

If you have any questions or concerns regarding this letter, please contact me at (530) 823-4886. We appreciate your on-going efforts to coordinate information for our respective UWMPs.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

ALF:zh



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May 19, 2016

Audie Foster
California American Water Co.
4701 Beloit Drive
Sacramento, CA 95838

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Audie Foster,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



May 19, 2016

Rob Roscoe
Sacramento Suburban Water District
3701 Marconi Ave, #100
Sacramento, CA 95821

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Rob Roscoe,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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May 19, 2016

Keith Durkin
San Juan Water District
9935 Auburn Folsom Road
Granite Bay, CA 95746

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Keith Durkin,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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May 19, 2016

Jim Mulligan
City of Roseville
2005 Hilltop Circle
Roseville, CA 95747

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Jim Mulligan,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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May 19, 2016

Matthew Brower
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Matthew Brower,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



May 19, 2016

Nav Gill
Sacramento County CEO
700 H Street, Room 7650
Sacramento, CA 95814

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Nav Gill,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Anthony L. Firenzi, PE
Deputy Director of Technical Services



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May 19, 2016

David Boesch
Placer County CEO
175 Fulweiler Avenue
Auburn, CA 95603

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear David Boesch,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Anthony L. Firenzi, PE
Deputy Director of Technical Services



Gray Allen, District 1
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Einar Maisch, General Manager

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Auburn, CA 95604

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May 19, 2016

President
Willow-Glen Water Co.
PO Box 659
Loomis, CA 95650

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear President,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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May 19, 2016

Remleh Scherzinger
Nevada Irrigation District
1036 West Main Street
Grass Valley, CA 95945

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Remleh Scherzinger,

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WWW.PCWA.NET

May 19, 2016

Mark Miller
City of Colfax
PO Box 702
Colfax, CA 95713

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Mark Miller,

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



May 19, 2016

Tim Rundel
City of Auburn
1225 Lincoln Way
Auburn, CA 95603

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Tim Rundel,

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May 19, 2016

Rick Angelocci
Town of Loomis
3665 Taylor Road
Loomis, CA 95650

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Rick Angelocci,

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	(800) 464-0030
Einar Maisch, General Manager	WWW.PCWA.NET

May 19, 2016

Rick Horst
City of Rocklin
3970 Rocklin Road
Rocklin, CA 95677

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Rick Horst,

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May 19, 2016

Rick LaFrance
Lakeview Hills Community Association
1739 Creekside Drive
Folsom, CA 95630

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Rick LaFrance,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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May 19, 2016

Paul Schmidt
Hidden Valley Community Association
7072 Pine Gate Way
Granite Bay, CA 95746

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Paul Schmidt,

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PLACER COUNTY WATER AGENCY

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MAIL

P.O. Box 6570

Auburn, CA 95604

PHONE

(530) 823-4850

(800) 464-0030

WWW.PCWA.NET

May 19, 2016

David Muscarella
Golden Hills Mutual Water Co.
4061 Miners Drive
Loomis, CA 95650

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear David Muscarella,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

Urban Water Management Plans are intended to ensure prudent levels of water supply planning in the land use entitlement process and incorporate water use efficiency and evaluation of dry year conditions into this planning. The plan content includes a water supply summary, a forecast of future demands, a supply versus demand strategy, including dry year scenarios, elements addressing water use efficiency, and a Water Shortage Contingency Plan. This UWMP update demonstrates progress in meeting the Agency's 2020 water conservation target, in which we are well on track.

A copy of the plan will be placed on the Agency's website at www.pcwa.net on Tuesday May 24, 2016 and the hearing will be held on Thursday June 2, 2016 at 2 p.m. at the Agency's Business Center located at 144 Ferguson Road, Auburn, CA. Written comments may be submitted prior to the hearing, addressed to me, and mailed to Placer County Water Agency, PO Box 6570, Auburn, CA, 95604 or emailed to engineering@pcwa.net.

The Agency encourages public input in this plan update. If you have any questions or comments, please do not hesitate to contact me at (530) 823-4886.

Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



May 19, 2016

Alan Johnston
Folsom Lake Mutual Water Company
6514 Mimus Lane
Granite Bay, CA 95746

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Alan Johnston,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



May 19, 2016

Gerry LaBudde
Christian Valley Park CSD
PO Box 3138
Auburn, CA 95604

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Gerry LaBudde,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



PLACER COUNTY WATER AGENCY

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May 19, 2016

Jason Tiffany
Midway Heights County Water District
PO Box 596
Meadow Vista, CA 95722

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Jason Tiffany,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



PLACER COUNTY WATER AGENCY

SINCE 1857

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WWW.PCWA.NET

May 19, 2016

Gerry LaBudde
Weimar Water Co.
PO Box 598
Weimar, CA 95736

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Gerry LaBudde,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



May 19, 2016

Norman Dean
Meadow Vista County Water District
PO Box 278
Meadow Vista, CA 95722

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Norman Dean,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



PLACER COUNTY WATER AGENCY
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WWW.PCWA.NET

May 19, 2016

Max Bailey
Heather Glen CSD
PO Box 715
Applegate, CA 95703

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear Max Bailey,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services



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May 19, 2016

David Mintline
Dutch Flat Mutual Water Company
PO Box 50
Dutch Flat, CA 95714

SUBJECT: Notice of availability and hearing for PCWA's draft 2015 Urban Water Management Plan for public review

Dear David Mintline,

The Placer County Water Agency (PCWA) has updated its Urban Water Management Plan (UWMP) for 2015 as required by the California Water Code (CWC), which requires an update at least every five years. You were notified in March of this year of the Agency's intent to update its UWMP; this letter is providing notice to interested counties, cities, water suppliers, and other organizations that the draft update is ready for public review and a hearing has been scheduled.

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Sincerely,

Anthony L. Firenzi, PE
Deputy Director of Technical Services

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C-1: CWUCC Report

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CUWCC BMP Retail Coverage Report 2014

Foundational Best Management Practices for Urban Water Efficiency

BMP 1.1 Operation Practices

ON TRACK

6311 Placer County Water Agency - Retail

1. Conservation Coordinator provided with necessary resources to implement BMPs?

Name:

Title:

Email:

2. Water Waste Prevention Documents

WW Document Name	WWP File Name	WW Prevention URL	WW Prevention Ordinance Terms Description
Option A Describe the ordinances or terms of service adopted by your agency to meet the water waste prevention requirements of this BMP.		http://www.pcwa.net/files/docs/drought/PCWA_2015_WSCP.pdf	Water waste prevention and prohibition are addressed in PCWA's Water Shortage Contingency Plan (URL above) on Pages 9 and 10; pursuant to PCWA's Rules and Regulations, Section 41306, with Water Waste Charges pursuant to Section 41221.
Option B Describe any water waste prevention ordinances or requirements adopted by your local jurisdiction or regulatory agencies within your service area.			
Option C Describe any documentation of support for legislation or regulations that prohibit water waste.			
Option D Describe your agency efforts to cooperate with other entities in the adoption or enforcement of local requirements consistent with this BMP.			
Option E Describe your agency support positions with respect to adoption of legislation or regulations that are consistent with this BMP.			
Option F Describe your agency efforts to support local ordinances that establish permits requirements for water efficient design in new development.			

At Least As effective As



CUWCC BMP Retail Coverage Report 2014
Foundational Best Management Practices for Urban Water Efficiency

BMP 1.1 Operation Practices

ON TRACK

Exemption

Comments:



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.2 Water Loss Control

ON TRACK

6311 Placer County Water Agency - Retail

Completed Standard Water Audit Using AWWA Software?	Yes
AWWA File provided to CUWCC?	Yes
2014 awwa 5_0 audit worksheet.xls	
AWWA Water Audit Validity Score?	70
Complete Training in AWWA Audit Method	Yes
Complete Training in Component Analysis Process?	Yes
Component Analysis?	No
Repaired all leaks and breaks to the extent cost effective?	Yes
Locate and Repair unreported leaks to the extent cost effective?	Yes

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair. Yes

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
252	349608	662685		True	726807	3746

At Least As effective As

Please see attached letter.

Exemption

Comments:

Placer County Water Agency is executing a professional services agreement with Water Systems Optimization to perform the agency's component analysis, which is scheduled to be completed by 11/07/16.



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.3 Metering With Commodity

ON TRACK

6311 Placer County Water Agency - Retail

Numbered Unmetered Accounts	No
Metered Accounts billed by volume of use	Yes
Number of CII Accounts with Mixed Use Meters	2090
Conducted a feasibility study to assess merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?	Yes
Feasibility Study provided to CUWCC?	Yes
Date: 3/31/2008	
Uploaded file name:	
Completed a written plan, policy or program to test, repair and replace meters	Yes

At Least As effective As

Known database issue on # estimated bills per year and # of meter readings per year (above), please see attached file with all of the data for columns shown above.

Exemption

Comments:

See 'At Least As Effective As' section for fix to known database issue.



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.4 Retail Conservation Pricing

ON TRACK

6311 Placer County Water Agency - Retail

Implementation (Water Rate Structure)

Customer Class	Water Rate Type	Conserving Rate?	(V) Total Revenue Comodity Charges	(M) Total Revenue Fixed Carges
Single-Family	Increasing Block	Yes	9235225.12	12182011.1
Multi-Family	Increasing Block	Yes	1088786.69	1958563.59
Commercial	Increasing Block	Yes	1657413.56	1568624.17
Industrial	Increasing Block	Yes	218622.89	14241.85
Institutional	Increasing Block	Yes	581144.78	376217.37
Dedicated Irrigation	Increasing Block	Yes	1131284.6	536656.22
Agricultural	Increasing Block	Yes	33932.81	49440.36
Fire Lines	Uniform	Yes	13046.85	461119.85
Other	Increasing Block	Yes	268691.75	468221.82
			14228149.05	17615096.33

Calculate: $V / (V + M)$ 45 %

Implementation Option: Use Canadian Water Wastewater Association Rate Design Model

V Use 3 years average instead of most recent year

Canadian Water and Wastewater Association

Customer Class	Water Rate Type	Conserving Rate?	(V) Total Revenue Comodity Charges	(M) Total Revenue Fixed Carges
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Industrial	Increasing Block	Yes	218622.89	14241.85
Institutional	Increasing Block	Yes	581144.78	376217.37
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Other	Increasing Block	Yes	268691.75	468221.82
			14228149.05	17615096.33



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.4 Retail Conservation Pricing

Calculate: $V / (V + M)$

45 %

ON TRACK

Upload file:

Agency Provide Sewer Service: No

At Least As effective As

No

Exemption

No

Comments:



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

6311 Placer County Water Agency - Retail

Retail

Does your agency perform Public Outreach programs? Yes

The list of wholesale agencies performing public outreach which can be counted to help the agency comply with the BMP

Regional Water Authority atalbot@rwah2o.org www.BeWaterSmart.info	Amy Talbot
---	------------

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year? Yes

Public Outreach Program List	Number
Newsletter articles on conservation	27
Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets	309
General water conservation information	41
Landscape water conservation media campaigns	6
Website	9
Email Messages	3
Total	395

Did at least one contact take place during each quarter of the reporting year? Yes

Number Media Contacts	Number
Articles or stories resulting from outreach	114
News releases	13
Television contacts	40
Radio contacts	24
Newspaper contacts	91
Written editorials	1
Total	283

Did at least one website update take place during each quarter of the reporting year? Yes

Public Information Program Annual Budget

Annual Budget Category	Annual Budget Amount
RWA Public Outreach Program	113000
PCWA Public Outreach Program	91975
Total Amount:	204975



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

Public Outreach Additional Programs
Customer notification for reported or observed water waste and agency assistance offered to customers to help correct water waste.
RWA Landscape Water Conservation Media Campaigns partnering with the Water Forum to create 6 videos distributed as PSA's.
IVR calls throughout the year target specific customers encouraging water conservation.
"Water is Served Upon Request" restaurant outreach, including table toppers and window clings for restaurants to display.
Water Efficiency outreach to hotels, provided conservation tent cards to be displayed in hotel rooms.
RWA "Be Water Smart" eblasts (3).
PCWA Water Efficiency booth at local events (Lincoln Highway Dedication Event, Spring & Fall Home and Garden Shows, Loomis Eggplant Festival).
"Blue Thumb Events Team" at local events (Sacramento Home & Landscape Expo, Walk on the Wild Side, Water Spots Award Ceremony at the River Cats, Harvest Day, three Science in the River City (SIRC) events).
Fire and Water publication that goes out with the Auburn Journal.
RWA website Links to Save Our Water, WaterSense, Irrigation Association, CUWCC, EcoLandscape, Green Gardener Training Program, and DWR.
RWA "Be Water Smart" dedicated phone line 1-800-WTR-TIPS.

Description of all other Public Outreach programs

RWA partnership/sponsorship with the Sacramento River Cats promoting outdoor water efficiency.

Comments:

The above mentioned Placer County Water Agency program efforts are in collaboration with the Regional Water Authority, Group 3 member of the CUWCC.

At Least As effective As

Exemption



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.2 School Education Programs

ON TRACK

6311 Placer County Water Agency - Retail

Retail

Does your agency implement School Education programs? Yes

The list of wholesale agencies performing public outreach which can be counted to help the agency comply with the BMP

Regional Water Authority Amy Talbot
atalbot@rwah2o.org www.BewWaterSmart.info

Materials meet state education framework requirements? Yes

Materials for students are written and developed by an award winning environmental educator and updated by water efficiency experts. Teacher guides provide regional focus and lessons based on the California Content Standards.

Materials distributed to K-6? Yes

"Be Water Smart News, Water the Never Ending Cycle" student newspaper distributed by the Sacramento Bee (K-12), "California Waterways Map" provided by DWR, Mr. Leaky "Water Conservation and You" booklet (K-4).

Materials distributed to 7-12 students? Yes (Info Only)

The colorful student newspaper "Living Rivers" distributed by the Sacramento Bee (K-12), "Be Water Smart News, Water the Never Ending Cycle" student newspaper distributed by the Sacramento Bee (9-12).

Annual budget for school education program: 31000.00

Description of all other water supplier education programs
Project WET workshops held for educators which promote knowledge of water resources (K-12). The Water Spots Video Contest was created to encourage young film makers to create short public service announcements about outdoor water conservation (9-12).

Comments:

The above mentioned Placer County Water Agency program efforts are in collaboration with the Regional Water Authority, Group 3 member of the CUWCC.

At Least As effective As No

Exemption No 0



CUWCC BMP Coverage Report 2014

6311 Placer County Water Agency - Retail

Baseline GPCD: 316.86

GPCD in 2014 230.36

GPCD Target for 2018: 259.80

Biennial GPCD Compliance Table

ON TRACK

Year	Report	Target		Highest Acceptable Bound	
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	305.50	100%	
2012	2	92.8%	294.00	96.4%	
2014	3	89.2%	282.60	92.8%	
2016	4	85.6%	271.20	89.2%	
2018	5	82.0%	259.80	82.0%	

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C-2: Water Shortage Contingency Plan

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Placer County Water Agency (PCWA) Water Shortage Contingency Plan

Western Water System

Through its Western Water System PCWA currently provides approximately 125,000 acre-feet of water annually, either directly or indirectly, to over 60,000 individual homes, businesses and irrigation customers, serving a total population of over 150,000.

The area served by the Western Water System extends from the community of Alta on the east, down the interstate 80 corridor, to the Sutter and Sacramento county lines on the west and south. The service area includes treated water deliveries from PCWA water plants to the communities of Alta, Monte Vista, Applegate, Colfax, Auburn, Loomis, Rocklin and Lincoln and much of the surrounding unincorporated areas. In addition to treated water service, PCWA provides irrigation water through its extensive canal system to individual customers. The Agency also delivers untreated wholesale water to the City of Roseville and to San Juan Water District, the amounts and populations of which are not included in the totals summarized above.

The Western Water System has two primary sources of surface water that are currently in use: (1) PG&E contract supplies from the Yuba and Bear Rivers delivered through PG&E's Drum-Spaulding hydroelectric system into a network of distribution canals at various locations that are owned and operated by PCWA and (2) PCWA's Middle Fork Project water rights that can be delivered through a pump station on the American River near Auburn into the Auburn Ravine Tunnel. The Agency has a small water right on Canyon Creek and a contract with the US Bureau of Reclamation for Central Valley Project water. The Agency also has access to groundwater in the farthest western portions of its service area that can be used conjunctively with surface water and in times of water shortages, along with a number of emergency intertie connections with other purveyors.

In 2013 the total delivery from the PG&E Yuba-Bear River source was 109,400 acre-feet, an additional 10,900 acre-feet was delivered from the American River, 3,200 acre-feet was delivered from Canyon Creek, and 2,200 acre-feet was transferred from Nevada Irrigation District.

PCWA's canal system is the backbone of its Western Water System, taking gravity water delivery from PG&E at various locations, and delivering water to PCWA treatment plants, the treatment plants of several other public and private water purveyors and delivering irrigation water to approximately 4,000 customers along the canal system and through Auburn Ravine.

The American River supply has only recently been developed as a reliable source; the infrastructure was constructed to facilitate continued planned urban developments as the Agency has reached its maximum allowed delivery rate under its PG&E water supply contract. The design delivery rate from the American River is about 100 cfs, which is intended to provide about 35,500 acre-feet annually into the Western Water System.

In 2013, approximately 82 thousand acre-feet (TAF) (65%) was used for irrigation purposes serving approximately 4,000 customers and 44 TAF (35%) was delivered as treated water for municipal and industrial purposes serving a population in excess of 150,000.

Dry Year Supply Reliability

A review of historic PG&E delivery records, including the 1977 drought, and modeling studies done on the Middle Fork Project indicate that the worst case dry year scenario, at current levels of development, should assume only a 50% supply from PG&E, but a full supply from the Middle Fork Project on the American River. This assumption is supported by water supply conditions experienced during the current drought, which began in 2012 and has continued into 2015. During this multiple-year drought the Agency experienced its first cutback of approximately 30% from PG&E in 2014. During this same period, the Middle Fork Project supply was used to meet demands that could be provided for through the capacity of the American River Pump Station, which offset some of the PG&E cutback.

Due to limitations in infrastructure and the location in the Western Water System where Middle Fork Project water is delivered, this supply cannot augment deliveries to all customers. Thus, the shortage in supply from PG&E can be only partially mitigated by the Middle Fork Project, and the Agency must optimize its use of both water supplies in a manner that distributes a water shortage in as equitable a manner as possible.

In most cases of reduced allocation from PG&E, the combination of these supplies can be distributed in a manner that all customers in the water system can be expected to conserve the same percentage relative to normal year deliveries. In extreme dry years, approaching 50% cutback from PG&E, customers on the canal system may need to conserve a greater percentage due to limitations in infrastructure delivering Middle Fork Project water into the canal system.

Water Shortage Actions - General

One of the keys to understanding how to respond to the loss of such a significant amount of water is to first understand what is possible in terms of the use of the Middle Fork Project supply.

Middle Fork Project water can be pumped from the American River into the Auburn Ravine Tunnel and from the tunnel up to the ground surface near Ophir, where it can be delivered to PCWA's Dutch Ravine Canal or the Foothill and Sunset water treatment plants. Middle Fork Project water would be able to supply the treatment plants with enough water to meet all lower Zone 1 treated water demands of about 34 TAF, which represents approximately 77% of treated water use in the Western Water System. Middle Fork Project water has a more limited ability to supply the canal customers of the Western Water System. The recently completed Ophir Road pipeline, which connects this supply to the Dutch Ravine Canal, can deliver 20 TAF of water to this portion of the canal system. This represents approximately 24% of canal water use in the Western Water System.

Based upon these physical delivery characteristics and the large difference between treated and irrigation demands dependent upon the reduced PG&E supply, more severe cuts in delivery may be necessary in the canal systems than in the treated water systems during periods of extreme drought, such as a 50% cutback in PG&E supplies. Additionally, state law and practical necessity dictate that public health and safety be prioritized over irrigation and agriculture in very serious water shortage conditions. Public health and safety needs rely on the treated

water systems and include fire protection, sanitation, hospitals, schools, and other critical needs.

Actions taken to conserve water in the canal systems are different than those taken in the treated water systems. Specifics of these actions are described for the canal systems and treated water systems as follows.

Water Shortage Actions – Irrigation Canal Systems

The actions taken to conserve water in the canal systems are more operational in nature on the part of PCWA, and may include changing the sizes of the orifices through which water is delivered to customers and/or instituting “rolling” or alternating canal outages. Changes in customer water use practices will be necessary to work within the water delivered under shortage conditions. Canal operations staff can work with customers in groups along a specific canal or, in select cases, as individuals to meet the necessary level of conservation.

In a water shortage emergency, the Agency Board of Directors will have declared a necessary level of conservation for the canal system. In the same action as declaring a level of conservation, more specific details on how to implement these generalized operational procedures will also be adopted, giving canal operations staff and customers guidelines on how to work cooperatively to meet conservation needs. In the 2014 water year, a 20% level of conservation was sought, operations staff worked to minimize losses in the delivery system, orifices were resized to reduce their peak delivery rate by 10%, rolling outages were used in some cases, but minimized, and the achieved level of conservation was 35%.

A sample resolution that includes more specifics on operational procedures for the canal systems is attached to this Water Shortage Contingency Plan. This resolution is written for a 20% level of conservation, but could be modified for a higher level of conservation if needed.

Water Shortage Actions – Treated Water Systems

Regardless of water supply availability or service conditions, the Board of Directors reserves the right to set water conservation goals and modify stage declarations as necessary, based on the impact to the environment or statewide water shortage conditions to align with regional or state water conservation policies, agreements, declarations or legal requirements. The Board of Director’s shall determine, based on present water conditions and any lawful directive of the State Water Resources Control Board, the treated water shortage stage applicable to the Agency for the coming year. All wasteful practices or unreasonable uses of water, whether willful or negligent, are always prohibited.

PCWA’s Water Shortage Contingency Plan consists of a normal water supply condition and four stages of varying conservation actions and use restrictions intended to meet target demands. Implementation of the stages is cumulative; meaning that implementation of a higher stage shall also include implementation of previous stages. These actions shall be used as a starting point to meet targets and shall be monitored, as described later in this plan, for performance. For each stage, the water reduction for customers shall be as follows:

Normal Water Supply – (“Use Water Efficiently”) Shall be in effect at all times unless the Board determines that a more restrictive conservation stage is appropriate. Base allocation of water may be used to determine allowable water use for each customer in this stage and compliance with the following stages.

Stage 1- (“Water Alert”) – Shall achieve a reduction of up to 20% relative to the base allocation of water.

Stage 2- (“Water Warning”) – Shall achieve a reduction of up to 30% relative to the base allocation of water.

Stage 3- (“Water Crisis”) – Shall achieve a reduction of up to 40% relative to the base allocation of water.

Stage 4- (“Water Emergency”) – Shall achieve a reduction of up to 50% relative to the base year of water.

Normal Water Conditions, “Use Water Efficiently”

Normal conditions shall be in effect at all times unless the Board determines that a more restrictive stage is appropriate. To promote the efficient use of water the Agency has adopted inclining block consumptive water rates for residential and commercial treated water customers. The following best practices are recommended during Normal Water Conditions:

1. Leaks or faulty sprinklers shall be repaired within 72 hours of occurrence.
2. Decorative water features must recirculate and shall be leak proof.
3. Landscapes shall only be watered between the hours of 9:00 p.m. and 9:00 a.m. to reduce evaporation and minimize landscape runoff.
4. Water shall be confined to the customer’s property and shall not be allowed to run off to adjoining property, roadside, non-irrigated areas, private and public walkways, roadways, parking lots, ditch or gutter or any other impervious service. Care shall be taken not to water past the point of saturation.
5. No landscape watering shall occur during rain/snow or within 48 hours after a ¼” or more of rainfall/snowfall.
6. Automatic shut-off devices shall be installed on any hose or filling apparatus in use.
7. Commercial, industrial, institutional equipment must be properly maintained and in proper working order.
8. All new landscaping shall, at a minimum, adhere to the specifications outlined in the State’s Model Water Efficient Landscape Ordinance adopted by the California Department of Water Resources or specifications of any land use jurisdiction in effect.

Stage 1, “Water Alert,” up to 20% Conservation - In addition to all the above, the following actions are mandatory:

1. Resale water suppliers to which the Agency provides water are advised to implement conservation measures comparable to those adopted by PCWA, to achieve the same level conservation.
2. Restaurants shall serve water to customers only upon request.
3. Hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered. The hotel or motel shall prominently display notice of this option in each bathroom using clear and easily understood language.
4. Turf watering shall be limited to a maximum of three days per week during the months of July and August, a maximum of two days per week in April, May, June, September, October and November, and shall not be watered during the remaining winter months unless PCWA notifies customers that watering is allowed due to unseasonably and extended dry conditions. Plant containers, trees, shrubs and vegetable gardens may be watered additional days when using drip irrigation or hand watering.
5. Washing down impervious surfaces such as driveways and sidewalks shall be prohibited unless necessary for public health and safety purposes.

Stage 2, “Water Warning,” up to 30% Conservation - In addition to all the above, the following actions are mandatory:

1. A construction water use plan shall be submitted that mitigates the use of water for purposes such as dust control.
2. The installation of new landscaping for existing homes shall be limited to low water use trees, shrubs and groundcover. The installation of new turf or hydro seed for existing homes shall be prohibited unless watered using drip or microspray systems. Customers who had installed new turf or hydro seed prior to the prohibition may apply for a waiver to irrigate during an establishment period.
3. Outside irrigation for newly constructed homes and buildings shall be prohibited unless watered using drip or microspray systems.
4. Turf watering shall be limited to a maximum of two days per week April through November and shall not be watered during the remaining winter months unless PCWA notifies customers that watering is allowed due to unseasonably and extended dry conditions. Plant containers, trees, shrubs and vegetable gardens may be watered additional days when using drip irrigation or hand watering.
5. Commercial, Industrial, and Institutional properties, such as campuses, golf courses, and cemeteries shall implement water efficiency measures to achieve a water usage reduction consistent with the objective of this stage.

6. Irrigation of ornamental turf on public street medians with potable water shall be prohibited.

Stage 3, “Water Crisis,” up to 40% Conservation - In addition to all the above, the following actions are mandatory:

1. Existing pools shall not be emptied and refilled unless required for public health and safety purposes.
2. No new landscape installations or renovations shall be permitted.
3. Waivers granted previously for turf or hydro seed watering during an establishment period shall be revoked.
4. The use of reclaimed water for dust control, earthwork, or road construction shall be required, as permits allow and as available.
5. Turf watering shall be limited to a maximum of one day per week April through November and shall not be watered during the remaining winter months unless PCWA notifies customers that watering is allowed due to unseasonably and extended dry conditions. Plant containers, trees, shrubs and vegetable gardens may be watered additional days when using drip irrigation or hand watering.
6. Car washing shall only be permitted using a commercial carwash that recirculates water and use high pressure/low volume wash systems.

Stage 4, “Water Emergency,” up to 50% and Greater Conservation - In addition to all the above, the following actions are mandatory:

1. Turf shall not be watered. Plant containers, trees, shrubs and vegetable gardens shall be watered only by drip irrigation or hand watering.

Stage Implementation and Monitoring Procedures

The Agency maintains a draft water shortage contingency resolution that is adopted during water shortages. A sample resolution that has been developed for the current drought is attached herein. Legal requirements, including public notices and hearings, shall be followed in adopting any resolution. However, Agency staff may implement operational changes in the canal systems and request voluntary actions by treated water customers on an interim basis to meet public health and safety needs as detailed above until such a resolution can be adopted.

In a water shortage, and particularly that resulting from failure of infrastructure, critical roles shall be established and appointed by the General Manager. These roles may include, but are not limited to Incident Commander, Operations Manager, and Public Information Officer. Other supporting roles that should be considered are engineering, mapping, customer service, information service, and public outreach. Other more detailed instructions may be found in the Agency’s Emergency Response Plan.

Under normal water supply conditions, Field Services and Technical Services operations staff record water production figures daily. Totals are reported monthly and incorporated into a water supply report. During a water shortage, monthly production is compared to the target

production to verify that the reduction goal is being met. Appropriate monthly reports are forwarded to the department heads and General Manager's office. Appropriate monthly reports are also included in the Board of Directors meeting materials.

In all stages, if targets are not met, Agency staff may implement further actions as long as they fall within the limits set by the resolution adopted by the Board of Directors in response to the shortage. Actions needed in excess of these limits, or reductions in actions, must be approved by the Board of Directors.

Analysis of Expenditures and Revenue during Shortages

There are two primary objectives during a water shortage, reduce water use and maintain adequate revenues to meet revenue requirements. Portions of the Agency's operating revenue is derived from volumetric based water rates, hence, during a water shortage with reduced water use, the Agency's revenue would decrease. Also, depending on the root cause of a water shortage, additional unbudgeted expenses would most likely be incurred with potentially substantial variance. A drought induced water shortage would result in additional expenses for public outreach, conservation enforcement and various other associated costs. A infrastructure failure induced water shortage would incur similar costs as a drought situation, plus other costs such as construction of alternate source facilities or alternative supply transmission costs, such as pumping which can be very expensive.

For example, if there is water available, the Agency has the ability to access water in the American River through double lift pumping, which based on the current energy prices, if the pumps were operated to achieve maximum flows, could, on the high side, cost an additional \$1 million per month and would pump an amount equal to approximately 90% of peak demand in a certain service area. However, these costs can vary significantly depending on demand. In a water shortage caused by an infrastructure failure, pumping costs would most likely be the most significant expense. Other non-capital expenses can vary substantially from \$0 to \$50,000 or more per month depending on the nature, magnitude, and duration of the water shortage.

The Agency has established reserves to supplement the needed revenue during a water shortage. These reserves would fund anticipated operating costs, as well as unanticipated operating and other costs. This is an alternative to implementing drought pricing. Based on designation/reserve policies, over the years, the Agency has accumulated monies for a variety of unanticipated, unforeseen or planned needs, whether those needs are operating or capital related. Based on Agency policy, the Agency has funded reserve accounts that could be used as needed. The policy identifies events or conditions, which would prompt the use of these funds. The Agency has established an Operating Reserve for unanticipated, unforeseen or planned variations in operating expenses or revenues. As of December 31, 2014, the Operating Reserve portion of the Western Water System Reserves totaled just over \$8.5 million.

The Agency's 2015 Operating Budget for the Western Water Division and Eastern Water Division were \$40 million and \$0.8 million, respectively. At December 31, 2014, the overall funded reserves for these two Divisions were \$30.6 million and \$282,000, respectively, including the operating reserve amount mentioned previously. In the event of a water shortage that results in a decline in revenue, the Agency's Board of Directors, to meet necessary revenue requirements, could consider the use these reserves. The use of reserves requires Board

approval. Although the Agency has funded reserves as an alternative to drought pricing and, thus, the Agency's water rate schedule does not contain water shortage or drought pricing, that practice could change and if so, the Agency would follow the Proposition 218 notification process and other rate adjustment regulations to implement water shortage or drought rates.

Prohibitions and Penalties

The goal of the Agency is to achieve voluntary compliance from our customers. The Agency will take reasonable measures to assure that customers have information available to promptly and efficiently address water use issues. Where voluntary compliance cannot be achieved through initial contacts and warnings, then appropriate administrative penalties and further action are required.

Violations of mandatory actions shall be addressed as described in the Agency's Rules, Regulations, Rates and Charges Governing the Distribution and Use of Water, updated January 1, 2015, as follows:

Per Sec. 41306 of the Rules and Regulations -DISCONTINUANCE OF SERVICE BY AGENCY. Service may be discontinued by the Agency for any of the following reasons:

- (b) The unauthorized taking of water or the taking of water in excess of the amount paid for.
- (c) Failure by the customer to maintain their facilities in a suitable condition to prevent waste of water. If the Agency determines that a customer is wasting water, that customer may be subject to a Water Waste Charge or to a reduction in the amount of water that the customer is allowed to purchase or both.

(1) IRRIGATION WATER CUSTOMERS:

If a customer is found to be taking delivery of an amount of water that exceeds the consumptive needs of their property such that there is persistent runoff into local drainage or storm drain systems, such excess water delivery shall be deemed a waste and unreasonable use of the Agency's water resources and the customer shall be subject to Water Waste Charges, as set forth in Section 41221 herein, and a reduction in the amount of water that the customer is allowed to purchase.

Following written notification of a water waste occurrence, the customer may choose to modify their facilities, or work with the Agency to reconfigure their delivery box such that water is delivered only on an "as-needed" basis, or may voluntarily reduce the amount of water purchased. If a customer fails to eliminate persistent water waste within a reasonable amount of time, the Agency may permanently reduce the size of the customer's delivery orifice until such waste is eliminated.

(2) TREATED WATER CUSTOMERS:

The Agency shall notify customers of waste and unreasonable use of water if there is persistent and excessive discharge of water from a customer's property. Such notifications shall result in imposition of a Water Waste Charge as set forth in Section 41221 herein. If water waste continues or if the Agency finds that all or most of the delivered water results in discharge from the customer's property or area of use, the Agency may discontinue service to the property.

The charges are intended to recover staff costs to monitor and enforce Section No. 41306 (c), which requires the customer to maintain his/her facilities in a suitable condition to prevent waste of water. In addition, during extreme water shortages, a call for voluntary conservation may not bring sufficient response by a customer. Therefore, it may be necessary to institute enforceable measures, including but not limited to, installation of flow restrictors, and disconnection of service.

Sec. 41221 WATER WASTE CHARGE. Ref: Section No. 41306 (c)

<u>Charge</u>	<u>Occurrence</u>	<u>Action</u>
-----	(first)	personal or written notification of the violation
-----	(second)	written warning and notice of correction
\$75.00	(third)	-----
\$75.00	(fourth)	service disconnection - pull meter / lock canal service