

Prepared for Sacramento County Water Agency

2015 Urban Water Management Plan



June 2016



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Prepared for Sacramento County Water Agency Sacramento, CA June 2016



148373



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List of Abbreviations

Act	Urban Water Management Planning Act	LHMP	Loca
ac-ft	acre-feet		
ac-ft/yr	acre-feet per year	MIE	Medi
Agency Ac	t Sacramento County Water Agency Act	M&I	Muni
ALERT	Automated Local Evaluation in Real Time	MGD	millio
AWWA	American Water Works Association	MIE	medi
BMP	best management practices	NSA	North
		NWS	Natio
Cal-Am	California American Water Company		
CASGEM	California Statewide Groundwater Elevation Monitoring	°F	degre
CBSC	California Building Standards and Code	PL	publi
CRS	Community Rating System	Plan	Disco
CSA	Central Service Area	POU	Place
CUWCC	California Urban Water Conservation Council	PSA	ραριι
CVP	Central Valley Project	Reclamat	ion
		RWA	Regio
DHCD	Department of Housing and Community Development	RWQCB	Regio
DMM	Demand Management Measure		
DWR	California Department of Water Resources	SACOG	Sacra
		SB X7-7	Sena
EPA	U.S. Environmental Protection Agency	SCGA	Sacra
ETo	evapotranspiration	SCWA	Sacra
		SGA	Sacra
ft	feet/foot	SGMA	Susta
FRWA	Freeport Regional Water Authority	SMUD	Sacra
FVWC	Fruitridge Vista Water Company	SRCSD	Sacra Distri
OFT		SSA	South
GEI		SSWD	Sacra
GMP	groundwater management plan	SWRCB	State
GPCD	gallons per capita per day	SWTP	Surfa
GSA	Groundwater Sustainability Agencies	SWTWMD	South
GSP	Groundwater Sustainability Plans	WDR	Wast
		WEP	Wate
IRWMP	Integrated Regional Water Management Plan	WROS	Wate
kWh	kilowatt-hour	WRPP	Wate

HMP	Local Hazard Mitigation Plan
ЛІЕ	Media in Education
1&I	Municipal and Industrial
MGD	million gallons per day
ЛІЕ	media in education
NSA	North Service Area
NWS	National Weather Service
'F	degrees Fahrenheit
۶L	public law
Plan	Urban Water Management Plan
POU	Place of Use
PSA	public service announcement
Reclamati	on U.S. Bureau of Reclamation
RWA	Regional Water Authority
RWQCB	Regional Water Quality Control Board
SACOG	Sacramento Area Council of Governments
SB X7-7	Senate Bill X7-7
SCGA	Sacramento Central Groundwater Authority
SCWA	Sacramento County Water Agency
SGA	Sacramento Groundwater Authority
SGMA	Sustainable Groundwater Management Act
SMUD	Sacramento Municipal Utilities District
SRCSD	Sacramento Regional County Sanitation District
SSA	South Service Area
SSWD	Sacramento Suburban Water District
SWRCB	State Water Resources Control Board
SWTP	Surface Water Treatment Plant
SWTWMD	Southwest Tract Water Maintenance District
VDR	Waste Discharge Requirement
VEP	Water Efficiency Program
WROS	Water Recycling Opportunities Study
WRPP	Water Recycling Pilot Program

Section 1 Introduction

This Urban Water Management Plan (Plan) addresses the Sacramento County Water Agency (SCWA) and includes a description of the water supply sources, historical and projected water use, and a comparison of water supply to water demands during normal, single-dry, and multiple-dry years. SCWA supplies water to its retail customers and also provides wholesale water supply to a retail water agency, Elk Grove Water District. This Plan serves as a long-range planning document for SCWA's water supply. Elk Grove Water District has prepared its own 2015 Plan, which should be consulted for details on their demands and supplies. This section describes the Urban Water Management Planning Act (Act) and the Plan organization.

1.1 Urban Water Management Planning Act

SCWA's Plan has been prepared in accordance with the Act, as amended, California Water Code, Division 6, Part 2.6, Sections 10610 through 10656. The Act became part of the California Water Code with the passage of Assembly Bill 797 during the 1983–1984 regular session of the California legislature. The Act was amended in November 2009 with the adoption of the Water Conservation Act or SBX 7-7 and was most recently amended in 2014. The Water Conservation Act is described in Division 6, Part 2.55, Section 10608.

The Act requires every urban water supplier that provides water for municipal purposes to more than 3,000 connections, or supplying more than 3,000 acre-feet (ac-ft) of water annually, to adopt and submit a Plan every five years to the California Department of Water Resources (DWR). The Act describes the required contents of the Plan as well as how urban water suppliers should adopt the Plan.

1.2 Plan Organization

This section provides a summary of the sections in the Plan. Section 2 presents the basis for preparing the Plan, linkage to regional planning, and coordination and outreach. Section 3 provides the system description including SCWA's organization, service area, climate, and demographics. Section 4 presents current and projected water uses. Section 5 presents the per capita water demand baselines and targets. Water supply sources are described in Section 6. Section 7 describes the reliability of the water supplies. Section 8 presents the water shortage contingency planning and Section 9 addresses water demand management measures. Section 10 addresses the Plan adoption and submittal. Section 11 presents the references used to help prepare this Plan. Appendices A through J provide relevant supporting documents.

DWR has provided a checklist of the items that must be addressed in each Plan based upon the Act. The checklist is completed for this Plan and provided in Appendix D. It references the sections and page numbers where the specific items can be found.

Section 2 Plan Preparation

This section presents the basis for preparing the Plan; Plan identification, coordination, and outreach; and Plan notification.

2.1 Basis for Preparing the Plan

SCWA is both a retail urban water supplier and a wholesale water supplier. Table 2-1 presents the public water system name and number for the applicable water systems that are owned and operated by SCWA. As shown in Table 2-1, SCWA owns and operates several smaller water systems that are below the size threshold for Plan reporting. The smaller water systems are included in this Plan.

SCWA has selected individual reporting for this Plan, as identified in Table 2-2. This Plan is reporting on a calendar year basis using ac-ft as the unit of measure as noted in Table 2-3.

Table 2-1. (DWR Table 2-1 R) Retail Only: Public Water Systems			
Public water system number	Public water system name	Number of municipal connections, 2015	Volume of water supplied, ac-ft 2015
CA3400101	Hood Water Maintenance District	81	35
CA3400106	East Walnut Grove	157	64
CA3400156	Southwest Tract Water Maintenance District	30	25
CA3400173	Northgate 880	262	1,074
CA3410002	Arden Park Vista	2,979	2,803
CA3410029	Laguna Vineyard ^(a)	43,767	21,618
CA3410704	Mather-Sunrise ^(b)	5,482	3,531
	Metro Air Park ^(c)	0	0
Total		52,758	29,150

Notes: Source of data is spreadsheet workbook file entitled "SCWA 2015 UWMP_ Connection and Consumption Data.xlsx" provided by Dan Gwaltney in email dated January 12, 2016. Source of 2015 Elk Grove wholesale deliveries is memo provided by Dave Zuccaro on April 15, 2016.

(a) Corresponds to SCWA's Zone 40 Central and South Service Areas. Includes raw water and recycled water. Excludes wholesale water deliveries to Elk Grove and City of Sacramento, with a 7.5% and 3.0% assumed loss respectively. See Section 4.1 for explanation.

- (b) Corresponds to SCWA's Zone 40 North Service Area.
- ^(c) Inactive water system.

Table 2-2. (DWR Table 2-2) Plan Identification	
Individual UWMP	
Regional UWMP (RUWMP) (checking this triggers the next line to appear) Choose One:	
RUWMP does not include a Regional Alliance	

Notes:

Table 2-3. (DWR Table 2-3) Agency Identification		
Type of Agenc	y (select one or both)	
\checkmark	Agency is a wholesaler	
\checkmark	Agency is a retailer	
Fiscal or cale	ndar year (select one)	
\checkmark	UWMP tables are in calendar years	
	UWMP tables are in fiscal years	
If using fiscal years Provide month and day that the fiscal year begins		
Day	Month	
Units of measure used in UWMP (select one)		
\checkmark	acre feet (ac-ft)	

2.2 Coordination and Outreach

This section presents the coordination that SCWA conducted in the preparation of this Plan with other agencies.

2.2.1 Coordination between Wholesaler and their Retailers

SCWA supplies wholesale water to a retail water agency and is supplied water by a wholesale water agency. The Act requires that both wholesale and retail water agencies that rely on each other for water supply provide each other information regarding projected water supply and demand.

SCWA coordinated with its current retail water agency customer, Elk Grove Water District, by identifying and quantifying water supplies available from SCWA. Elk Grove Water District provided their projected use of wholesale water as well as their population projections. A possible future wholesale customer is California American Water Company (Cal-Am) in the western portion of the Rio del Oro planning subarea. Recently, SCWA has supplied a small amount of water to the City of Sacramento. SCWA coordinated with Cal-Am by providing an estimate of the water demand for that future wholesale area. Table 2-4 presents the water supplier information exchange that was done.

California A	merican Water Company
Elk Grove W	ater District
Water suppl	ier name
\checkmark	Supplier has informed 10 or fewer other water suppliers of water supplies available in accordance with CWC 10631.Complete the table below.
	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.

SCWA is supplied wholesale water by the U.S. Bureau of Reclamation (Reclamation) and the City of Sacramento . Reclamation does not prepare a Plan. SCWA provided the Reclamation and the City of Sacramento its projected water demand for the wholesale water supply. Table 2-5 presents the information exchange with the wholesale suppliers.

Table 2-5. (DWR Table 2-4 R) 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
US Bureau of Reclamation
City of Sacramento

2.2.2 Coordination with Other Agencies and the Community

The Act requires SCWA to 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. Table 2-6 provides a summary of the Plan coordination with the appropriate agencies.

SCWA coordinates with other water agencies in the region through its participation and membership in the Regional Water Authority (RWA). RWA is a joint powers authority that serves and represents the interests of member water providers in the greater Sacramento, Placer, and El Dorado County region. The RWA's primary mission is to help its members protect and enhance the reliability, availability, affordability and quality of water resources. SCWA participates in RWA's regional water efficiency program designed to help local purveyors implement best management practices on a regional basis.

Table 2-6. Coordination of Plan Preparation								
	Was contacted for input	Was sent a copy of the draft Plan	Commented on the draft Plan	Was sent a notice of public hearing	Attended the public hearing			
Golden State Water Company								
California American Water Company	\checkmark							
City of Elk Grove				\checkmark				
East Bay Municipal Utility District								
Elk Grove Water District	\checkmark							
City of Folsom								
Fruitridge Vista Water Company								
Omochumne-Hartnell Water District								
City of Rancho Cordova				✓				
Regional Water Authority								
Sacramento Groundwater Authority								
City of Sacramento	\checkmark							
Sacramento Suburban Water District								
Sacramento Central Groundwater Authority								
Sacramento Regional County Sanitation District								
US Bureau of Reclamation	\checkmark							

2.2.3 Notices to Cities and Counties

As required by the Act, SCWA notified cities and counties within the service area at least 60 days before the public hearing that the Plan was being prepared. Section 10 presents the information on this notice to cities and counties. SCWA is part of the County of Sacramento, so it did not need to provide notification to Sacramento County.

Section 3

System Description

This section describes the SCWA's service area, organization, water supply facilities, service area climate, and population.

3.1 General Description

SCWA was formed in 1952 by a special legislative act of the State of California called the Sacramento County Water Agency Act (Agency Act). SCWA is governed by a Board of Directors. Under the Agency Act, the Board may contract with the federal government and the State of California with respect to the purchase, sale, and acquisition of water. SCWA may also construct and operate any required capital facilities.

SCWA provides retail water supply to portions of unincorporated Sacramento County, the City of Rancho Cordova, and the City of Elk Grove. SCWA also provides wholesale water supply to a portion of the service area of Elk Grove Water District. It is anticipated that SCWA will also provide wholesale water supply in the future to Cal Am's service area in Rio del Oro. Elk Grove Water District operates a retail water system serving customers within a portion of the City of Elk Grove.

The combined Mather Sunrise and Laguna Vineyard public water systems are known as Zone 40. The Mather Sunrise system consists of the Zone 40 North Service Area (NSA). The Laguna Vineyard water system consists of both the Zone 40 Central Service Area (CSA) and South Service Area (SSA)

Figure 2-1 illustrates SCWA's service area and relevant jurisdictional boundaries. The service area of the water distribution system is also shown.

3.1.1 Mather Sunrise

The Mather Sunrise water system is also known as the NSA. The NSA is located south of the American River and includes part of the City of Rancho Cordova. The NSA is currently supplied exclusively by groundwater. The NSA is the least developed of the three service areas, with currently less than 10 percent of the projected build out population. This service area includes the old Mather and Sunrise Corridor systems, as well as the newer Sunridge system. SCWA assumed ownership of the Mather System shortly after the County of Sacramento took over the old Mather Air Force Base after it was shut down by the US Air Force in the mid-1990s. In the case of the Sunrise Corridor System, SCWA was asked to take ownership and provide water service after the system was constructed through an assessment district in the late 1980's. The majority of the land within the NSA boundary is rural and undeveloped.

3.1.2 Laguna Vineyard

The Laguna Vineyard water system consists of the CSA and the SSA. The CSA is located to the south of the NSA and includes a portion of the City of Elk Grove. The CSA is supplied by surface water from the Vineyard Surface Water Treatment Plant (SWTP) and groundwater. SCWA provides wholesale water to Elk Grove Water District within the CSA. This service area includes the old Grantline-99 system, as well as the newer Vineyard, Vineyard Springs, and North Vineyard Station areas.



The CSA is predominately residential with a small amount of commercial and institutional customers and a large rural component to the east.

The SSA is located south of the CSA and to the west of Highway 99 and includes a portion of the City of Elk Grove. The SSA is supplied by a mix of surface water, groundwater, and recycled water. The SSA is predominantly residential with some commercial and institutional customers as well.

3.1.3 Arden Park Vista

The Arden Park Vista water system is located north of the American River and to the east of the City of Sacramento. The system began with the development of the Sierra Oaks and Arden Park areas approximately 80 years ago. The service area predominantly consists of single family residential customers. The Arden Park Vista water system is supplied by groundwater wells.

3.1.4 East Walnut Grove

The East Walnut Grove service area is located in the southern part of Sacramento County along the east side of the Sacramento River within the town of Walnut Grove. The East Walnut Grove service area is supplied by groundwater wells and consists of one pressure zone. SCWA took over operation and maintenance of this water system in 2002.

3.1.5 Hood

The Hood service area is located in the southern part of Sacramento County along the east side of the Sacramento River north of the East Walnut Grove service area. The Hood service area is supplied by groundwater wells and consists of one pressure zone. SCWA took over operation and maintenance of this water system in 1970s.

3.1.6 Northgate 880

The Northgate 880 service area is located in the northern part of Sacramento County bordered by Interstate 80. The service area consists of all non-residential commercial and industrial customers. The Northgate 880 service area is supplied by groundwater wells and consists of one pressure zone.

3.1.7 Southwest Tract

The Southwest Tract service area is located in central Sacramento County, south of the American River, near Fruitridge Road and Stockton Boulevard. Southwest Tract is a small service area (33 flat rate connections) where SCWA operates and maintains the distribution system, but the water is supplied by the Fruitridge Vista Water Company (FVWC). The Southwest Tract service area does not use any water produced by SCWA. The original agreement between FVWC and the Southwest Tract Water Maintenance District (SWTWMD), which later was annexed to SCWA, was adopted on March 2, 1970. In the agreement, the SWTWMD agreed to buy water from FVWC and to sell water to SCWA to satisfy the water supply needs for the parcels within the Southwest Tract service area. SWTWMD agreed to maintain its own mains, hydrants, and services, and to let the FVWC transmit water through the SWTWMD mains to certain parcels east of the Southwest Tract.

3.1.8 Metro Air Park

The Metro Air Park service area is located in the northern part of Sacramento County adjacent to the east side of the Sacramento International Airport. Water supply and distribution facilities within the Metro Air Park service area will be constructed by the developer and then dedicated over to SCWA. A water storage tank and booster pump as well as the pipeline distribution system are in place in the Metro Air Park service area. These facilities are not active and there are currently no water demands in the Metro Air Park system. The water supply for Metro Air Park will be provided by the City of Sacramento through a wheeling/wholesale agreement between the City of Sacramento and SCWA.

3.2 Service Area Climate

The SCWA's service area experiences cool and humid winters and hot and dry summers. Based on the historical data obtained from the Western Regional Climate Center, the average minimum and maximum monthly temperature ranges from 38 to 93 degrees Fahrenheit. The combination of hot and dry weather results in higher water demands during the summer than in the winter months. Table 3-1 summarizes the Sacramento region's climate conditions.

Table 3-1. Monthly Average Climate Data Summary							
Month	Standard monthly average	Average rainfall (inches) ^(b)	Average temperature (degrees Fahrenheit) ^(b)				
	E1º (INCNES) ^(a, c)		Max	Min			
January	1.14	3.56	53.5	37.8			
February	1.76	3.07	59.9	41.0			
March	3.28	2.44	64.6	43.1			
April	4.51	1.17	71.4	45.9			
Мау	6.46	0.50	79.9	50.7			
June	7.44	0.18	87.2	55.4			
July	7.91	0.03	92.7	58.2			
August	7.02	0.06	91.5	57.8			
September	5.13	0.25	87.7	55.8			
October	3.33	0.93	77.7	50.2			
November	1.59	2.04	63.7	42.6			
December	1.02	3.02	53.8	38.2			
Total	50.59	17.25					

 (a) Data recorded from Sacramento Valley, Fair Oaks station 131, CIMIS <u>www.cimis.water.ca.gov</u> (April 1997 – October 2015).

(b) Data recorded from Sacramento Executive Airport, WRCC Station Number 047630 wrcc.dri.edu (November 1941 - January 2015)

^(e) ETo (evapotranspiration) is the loss of water from the soil both by evaporation and by transpiration from the plants growing thereon.

3.3 Service Area Population and Demographics

This section presents the historical and projected population within the service areas of the eight public water systems. Table 3-2 presents the current and projected future population for SCWA's retail water systems. The 2015 population is estimated using the DWR population tool. The DWR population tool uses a GIS map of the water distribution system service area to calculate the 2010 population using the 2010 census and then estimates the 2015 population based on a correlation of the number of single family and multi family connections in 2015 compared to 2010.

The projected populations for the Mather Sunrise and Laguna Vineyard water systems are based on the projections developed in the Water System Infrastructure Plan Update (SCWA, 2016). That document developed buildout land use acreage by type of approved land use, which was used to quantify the buildout number of dwelling units and water system connections. That assessment included the proposed West Jackson, Jackson Township, and NewBridge projects. The number of buildout dwelling units was used to estimate the buildout population. Buildout is projected to occur after 2040 in Zone 40. The annual growth in

population was developed from the assumed annual numbers of new connections. The populations for the Arden Park Vista, East Walnut Grove, Hood, and Southwest Tract systems are expected to remain stable at since those service areas are built out. The Metro Air Park and Northgate 880 water systems do not have residential population and are expected to remain with only nonresidential customers.

The projected populations for SCWA's wholesale customers presented in Table 3-3 were developed by SCWA and shared with those retail agencies (SCWA, 2016).

Table 3-2. (DWR Table 3-1 R) Retail: Population - Current and Projected								
Water system	2015	2020	2025	2030	2035	2040		
Arden Park Vista (a)	(b)	9,372	9,372	9,372	9,372	9,372		
Hood Water Maintenance District (a)	(b)	256	256	256	256	256		
East Walnut Grove (a)	(b)	428	432	436	440	440		
Southwest Tract Water Maintenance District ^(a)	(b)	157	157	157	157	157		
Northgate 880 (a)	(b)	0	0	0	0	0		
Zone 40, Laguna Vineyard and Mather-Sunrise (c)	(b)	186,347	220,402	256,900	295,843	337,229		
Metro Air Park (a)	(b)	0	0	0	0	0		
Population served	165,895	196,560	230,619	267,121	306,068	347,454		

^(a) Based on projection in 2010 UWMP.

(b) Not quantified separately with DWR population tool.

^(c) Population developed in Water System Infrastructure Plan Update (SCWA, 2016).

Table 3-3. (DWR Table 3-1 W) Wholesale: Population - Current and Projected									
Retail agency 2015 2020 2025 2030 2035 2040									
10,500	12,053	12,963	13,845	14,697	15,520				
-	-	2,500	5,000	7,500	10,000				
	12,053	15,463	18,845	22,197	25,520				
	ble 3-1 W) W 2015 10,500 -	ble 3-1 W) Wholesale: Po 2015 2020 10,500 12,053 12,053	2015 2020 2025 10,500 12,053 12,963 - - 2,500 12,053 15,463	2015 2020 2025 2030 10,500 12,053 12,963 13,845 - - 2,500 5,000 12,053 15,463 18,845	2015 2020 2025 2030 2035 10,500 12,053 12,963 13,845 14,697 - - 2,500 5,000 7,500 12,053 15,463 18,845 22,197				

Note: Developed by SCWA. No population projection has been received from the retail agencies.

3.3.1 Other Demographic Factors

Other demographic factors that affect water management planning include the uncertainty in estimating future population growth and per capita water use. The actual population growth that has occurred since the preparation of the 2005 and 2010 Plans has been generally less than anticipated. The recession that started in 2008 and the accompanying slow down in the construction of dwelling units resulted in population not growing as much as previously estimated. The adoption of 2020 per capita demand targets in 2010 along with the mandated demand reductions announced by the Governor in 2015 due to the drought have resulted in a significant decline in per capita water use. It is not known to what extent per capita water use will rebound to pre-drought levels once the drought ends. The uncertainties with both future population and per capita water use are considered in SCWA's water management planning.

Section 4 System Water Use

This section presents the current and projected retail water demands by sector and the demands of SCWA's wholesale water customers, distribution system water losses, passive water savings, low income household water use, and climate change impacts on water use.

4.1 Water Uses by Sector

The 2015 retail water demands by customer sector are presented in Table 4-1. Since SCWA's water system connections are not fully metered, the 2015 water sales by use type in Table 4-1 is estimated. The total water production in Table 4-1 excludes the deliveries to wholesale water customers plus an assumed amount for system losses. The 2015 wholesale water demands are presented in Table 4-2.

Table 4-1. (DWR Table 4-1 R) Retail: Demands for Potable and Raw Water – Actual							
	2015 Actual						
Use type	Additional description	Level of treatment when delivered	Volume, ac-ft/yr				
Single family		Drinking water	16,526				
Multi-family		Drinking water	759				
Commercial		Drinking water	2,442				
Industrial		Drinking water	311				
Institutional/Governmental		Drinking water	586				
Landscape		Drinking water	1,510				
Landscape		Raw water	170				
Losses		Drinking water	6,270				
Total			28,574				

Note: Source of data is spreadsheet workbook file entitled "SCWA 2015 UWMP_ Connection and Consumption Data.xlsx" provided by Dan Gwaltney in email dated January 12, 2016.

System losses may include some non metered water uses since not all connections are metered.

The total water production excludes deliveries to wholesale customers and water losses associated with those deliveries as presented in Table 4-2.

	2015 Actual						
Use type	Additional description	Level of treatment when delivered	Volume, ac-ft/yr				
Sales to other agencies	Elk Grove Water District	Drinking water	1,987				
Sales to other agencies	City of Sacramento	Drinking water	627				
Losses	Transmission losses	Drinking water	78				
Total			2,692				
Note: Source of Elk Grove data provided in mem	o provided by Dave Zuccaro on April	15, 2016. The data identi	ified as "Water				

Table 4-2. (DWR Table 4-1 W) Wholesale: Demands for Potable and Raw Water - Actual

Deliveries to EGWD as reported from customer's meters" of 1,901 ac-ft is used. Assumed 4.5 percent loss added for system losses from wholesaler/retailer interconnections to retail agency's customers. Losses are calculated as a percent of the sales amount. Source of City of Sacramento data provided in spreadsheet workbook file entitled "SCWA 2015 UWMP_ Connection and Consumption Data.xlsx" provided by Dan Gwaltney in email dated January 12, 2016.

Transmission system losses estimated as 3.0 percent from water sources to interconnections. Transmission system losses are calculated as a percent of the sales amount for Elk Grove and the wholesale delivery amount for the City.

Table 4-3 presents the current and projected future water demand by system, excluding recycled water and raw water. Tables 4-4 and 4-5 present the projected retail and wholesale water demands by use type through 2040. The projected retail water demands for the Laguna Vineyard and Mather Sunrise water systems are based on the projections developed in the 2016 Water System Infrastructure Plan (SCWA, 2016). In that document the buildout land use analysis was used to develop the buildout water demands. The assumed growth rate in water system connections was used to develop the water demand projections for the years before buildout. The portion of the demand projection for the other water systems are the same as the projections developed in the 2010 Plan since that is the most recent projection that has been developed. The projection of the wholesale demands for the Elk Grove wholesale area are based on coordination with Elk Grove Water District. The projection of the wholesale demands for Cal-Am are based on an analysis prepared by SCWA (SCWA, 2016). Tables 4-6 and 4-7 present the 2015 and projected total potable and recycled water demands.

Table 4-3. Water Demands by System							
	2015	2020	2025	2030	2035	2040	
Retail							
Zone 40, Laguna Vineyard and Mather Sunrise	24,403	41,312	48,881	56,816	64,786	72,921	
Arden Park Vista	2,803	3,630	3,527	3,412	3,315	3,315	
East Walnut Grove	64	132	133	132	133	133	
Hood	35	62	60	59	57	57	
Northgate 880	1,074	1,264	1,168	1,148	1,131	1,131	
Southwest Tract	25	21	21	21	21	21	
Retail subtotal	28,404	46,421	53,790	61,588	69,443	77,578	

Table 4-3. Water Demands by System								
	2015	2020	2025	2030	2035	2040		
Wholesale								
Elk Grove	1,986	4,000	4,200	4,560	4,560	4,560		
Cal-Am Rio del Oro	-	-	486	1,006	1,491	2,012		
City of Sacramento	627	-	-	-	-	-		
Transmission system losses	78	120	141	167	182	197		
Wholesale subtotal	2,691	4,120	4,826	5,733	6,233	6,769		
Total potable demand, retail and wholesale	31,095	50,541	58,616	67,321	75,676	84,346		
Recycled and raw water	745	1,700	1,700	1,700	1,700	1,700		
Total demand	31,840	52,241	60,316	69,021	77,376	86,046		
Retail demand w/ RW	29,149	48,121	55,490	63,288	71,143	79,278		

Table 4-4. (DWR Table 4-2 R) Retail: Demands for Potable and Raw Water - Projected

lleo tupo	Projected water use, ac-ft/yr							
Use type	2020	2025	2030	2035	2040			
Single family	30,840	34,322	37,540	40,282	42,663			
Multi-family	2,139	3,257	4,629	6,245	8,118			
Commercial	5,223	6,057	7,060	8,145	9,360			
Industrial	524	1,084	1,801	2,670	3,699			
Institutional/Governmental	1,109	1,251	1,391	1,517	1,635			
Landscape	3,196	3,920	4,730	5,604	6,554			
Losses	3,390	3,898	4,437	4,982	5,549			
Total	46,421	53,789	61,588	69,445	77,578			

Notes: Projected demands for all of SCWA's retail water systems.

Table 4-5. (DWR Table 4-2 W) Wholesale: Demands for Potable and Raw Water - Projected								
		Projected water use, ac-ft/yr						
Use type	Additional description	2020	2025	2030	2035	2040		
Sales to other agencies	Elk Grove Water District	4,000	4,200	4,560	4,560	4,560		
Sales to other agencies	California American Water Company	0	486	1,006	1,491	2,012		
Losses	Losses from supply sources to wholesale/retail interconnections projected to be 3.0% of wholesale delivery amounts.	120	141	167	182	197		
Total		4,120	4,826	5,733	6,233	6,769		
Total		4,120	4,826	5,733	6,233			

Note: Subsequent to release of the public draft, EGWD presented their projections as 2,940 ac-ft/yr, 3,316 ac-ft/yr, 3,400 ac-ft/yr, 3,442 ac-ft/yr, and 3,462 ac-ft/yr for the five year intervals.

Table 4-6. (DWR Table 4-3 R) Retail: Total Water Demands, ac-ft/yr									
2015 2020 2025 2030 2035 2040									
Potable and raw water from Tables 4-1 and 4-5	28,574	46,421	53,789	61,588	69,445	77,578			
Recycled water demand from Table 6-6	575	1,700	1,700	1,700	1,700	1,700			
Total water demand	29,149	48,121	55,489	63,288	71,145	79,278			

Table 4-7. (DWR Table 4-3 W) Wholesale: Total Water Demands, ac-ft/yr									
2015 2020 2025 2030 2035 2040									
Potable and raw water from Tables 4-2 and 4-4	2,692	4,120	4,826	5,733	6,233	6,769			
Recycled water demand from Table 6-4	0	0	0	0	0	0			
Total water demand	2,692	4,120	4,826	5,733	6,233	6,769			

4.2 Distribution System Water Losses

Water losses in SCWA's water system for 2015 are presented in Table 4-8. A detailed water system loss analysis is provided in Appendix G. The water audit is an accounting exercise that tracks all sources and uses of water within a water system over a specified period.

Metered records are available for the retail customers that are located in the Elk Grove Water District's wholesale area. SCWA does not currently meter the wholesale water supplied to Elk Grove Water District at the multiple points of interconnection. Therefore, the water losses that occur between the wholesale/retail interconnections and each retail customer is projected to be 4.5 percent of the retail customer water sales amount and 3.0 percent from SCWA's production sources to the wholesale/retail interconnections.

Table 4-8. (DWR Table 4-4 R&W) Retail and Wholesale: 12 Month Water Loss Audit Reporting				
Reporting Period Start Date (Month/Year)	Volume of Water Loss, ac-ft/yr			
1/2014	2,860			
Note: Taken from the field "Water Losses" (a combination worksheet.	on of apparent losses and real losses) from the AWWA			

4.3 Water Savings from Codes, Standards, Ordinances, or Transportation and Land Use Plans

Water savings from codes, standards, ordinances, or transportation and land use plans decrease the future water use for both existing and future customers compared to past water use characteristics. These water savings have been partially included in the water demand projections as noted in Table 4-9. Table 4-10 has been developed to quantify the projected water demand that includes the total water savings.

The requirements that will result in future water savings include:

Model Water Efficient Landscape Ordinance – Effective on December 1, 2015, this new ordinance is projected to reduce the typical residential outdoor landscape demands for new construction by up to 20

percent from the estimated demand using the prior ordinance provisions. Commercial landscape for new construction may reduce outdoor water demand by up to 35 percent over the prior ordinance.

California Energy Commission Title 20 appliance standards for toilets, urinals, faucets, and showerheads – This standard will impact both new construction and replacement fixtures in existing homes. This is included in the CALGreen assumption for new construction described below.

CALGreen Building Code – Requires residential and non-residential water efficiency and conservation measures for new buildings and structures.

For the development of Table 4-10, it is assumed that the reduction in unit water demands for customers in 2040 compared to existing older customers will be approximately 25 percent lower for residential customers, 15 percent lower for nonresidential customers, and 20 percent lower for landscape water customers.

Table 4-9. (DWR Table 4-5 R) Retail Only	: Inclusion in Water Use Projections
Are future water savings included in projections?	Yes
If "Yes" to above, state the section or page number where citations of the codes, ordinances, etc utilized in demand projections are found.	Location in UWMP <u>on page 4-4</u> .
Are lower income residential demands included in projections?	Yes

Table 4-10. 2040 Water Demand Projections with Savings due to Codes and Standards						
Customer category	Demand with no future savings	Demand as presented in Table 4-4	Demand with full savings			
Single family	48,697	42,663	36,752			
Multi-family	10,532	8,118	7,697			
Commercial	10,008	9,360	8,543			
Industrial	3,990	3,699	3,446			
Institutional	1,749	1,635	1,495			
Landscape irrigation	7,294	6,554	5,758			
Losses	6,170	5,549	4,777			
Total	88,440	77,578	68,468			

4.4 Water Use for Lower Income Households

The Act requires that the water demand projections include the projected water use for lower income households. The demand projections presented in this Plan include all of the households in SCWA's service area, therefore lower income household water use is included in the demand projections. DWR states that

water suppliers should determine the number of low income housing units projected for the service area as identified in housing elements of applicable general plans and estimate their projected water use. The income limits for lower income households are to be established by DWR based on 80 percent of area median income, adjusted for family size. The Sacramento County median household income is \$55,615 and \$79,051 for the City of Elk Grove.

None of the applicable housing elements quantify the number of low income households in SCWA's service area, and none of them present projections. The Housing Element of the Sacramento County General Plan, which was adopted on October 8, 2013, states that the Vineyard Community Area has 23.1 percent low income households (Sacramento County, 2013). The City of Elk Grove Housing Element (City of Elk Grove, March 2015) does not quantify the number of low income households. The Sacramento Area Council of Governments (SACOG) estimates that the low income households are 43 percent of the total for Sacramento County, 25 percent for the City of Elk Grove, and 48 percent for the City of Rancho Cordova (SACOG, 2012). Based on these information sources, it is likely that the proportion of low income households.

Section 5

SB X7-7 Baselines and Targets

This section presents the updated per capita water demand baseline and target analysis including the baseline periods, service area population, gross water use, resulting updated baseline and target per capita water use, and comparison of the 2015 per capita water use to the 2015 target. This analysis replaces the analysis prepared for the 2010 Plan. The Senate Bill (SB) X7-7 verification tables are presented in Appendix E.

5.1 Baseline Periods

SCWA selected the 1995 to 2004 as its 10-year baseline period and 2003 to 2007 as its 5-year baseline period in the 2010 Plan. SCWA has decided to use the same baseline periods for this Plan. The baseline period ranges are presented in Table 5-1.

5.2 Service Area Population

In order to calculate the annual baseline gallons per capita per day (GPCD), SCWA re-estimated the served population for each baseline year in both the baseline periods and for the 2015 compliance year. SCWA conducted a baseline population analysis as part of the 2010 Plan based on the year 2000 census and using the population of all of its public water systems. The year 2010 census data was not available until after the 2010 Plan submittal deadline. For this 2015 UWMP, SCWA re-calculated its baseline population using 1990, 2000, and 2010 census data for its public water systems. The DWR population tool was used as noted in Table SBX7-7 Table 2, located in Appendix E. The boundaries of areas served by the water distribution systems in 1990 and 2010 were used with the population tool. The population for the noncensus years was determined by correlating the population to the number of single and multifamily residential connections for each of those years. The updated population results are presented in Table SBX7-7 Table 3, located in Appendix E.

5.3 Gross Water Use

Gross water use is the measure of water that enters the SCWA distribution system over a 12-month period with certain allowable exclusions. SCWA's gross water use for the baseline years and 2015 are shown in Table SBX7-7 Table 4 located in Appendix E.

5.4 Baseline Daily Per Capita Water Use

The daily per capita water use for each of the baseline years is calculated by dividing the gross water use for each year by the service area population for each year as presented in Table SBX7-7 Table 5, located in Appendix E. The resulting 5-year and 10-year baseline per capita water use are shown in Table 5-1. The 10-year baseline per capita water use determined in the 2010 Plan was 278 GPCD compared to the 295 GPCD determined in this updated analysis.

5.5 2015 and 2020 Targets

SCWA has selected Method 1 to determine its per capita water use targets as noted in SBX7-7 Tables 7 and 7-A, located in Appendix E. SBX7-7 Table 7-F located in Appendix E confirms that the minimum reduction for the 2020 target is met. This is the same method selected in the 2010 Plan. Method 1 determines the per

capita water demand target as 80 percent of the baseline per capita water use. The resulting per capita water demand targets are summarized in Table 5-1. The 2020 per capita demand target of 236 GPCD compares to the 222 GPCD from the 2010 Plan.

Table 5-1. (DWR Table 5-1 R) Baselines and Targets Summary: Retail Agency or Regional Alliance Only						
Baseline period	Start year	End year	Average GPCD	2015 interim target , GPCD	Confirmed 2020 target, GPCD	
10-15 year	1995	2004	295	265	236	
5 Year	2003	2007	248	N/A	N/A	

5.6 Compliance Daily per Capita Water Use

As shown in Table 5-2, SCWA's 2015 per capita water demand was less than the 2015 interim target. There are allowable adjustments that can be made to the gross water use for extraordinary events, economic adjustments, or weather normalization. SCWA did not adjust their 2015 gross water use, as noted in Table 5-2.

Table 5-2. (DWR Table 5-2 R) 2015 Compliance: Retail Agency or Regional Alliance Only								
Actual 2015 GPCD ^(a)	2015 Interim target GPCD ^(a)	Optional adjustments to 2015 GPCD from Methodology 8						Did supplier
		Extraordinary events ^(a)	Economic adjustment ^(a)	Weather normalization ^(a)	TOTAL adjustments ^(a)	Adjusted actual 2015 GPCD ^(a)	(adjusted if applicable)	targeted reduction for 2015? Y/N
153	265				0	153	153	Yes

^(a) All values are in gallons per capita per day (GPCD)

Section 6 Water Supplies

SCWA uses purchased water, surface water, groundwater, and recycled water as its sources of water supply. DWR defines purchased water as water purchased from other suppliers, including non self-supplied surface water. Surface water is defined by DWR as self-supplied water that is drawn from streams, lakes, and reservoirs (DWR, 2016). These water supply definitions are used in this Plan for the purpose of describing SCWA's water supplies. This section describes each of the water supplies, future water projects, and climate change impacts to supply.

6.1 Purchased Water

SCWA has two sources of purchased surface water supplies, as described below.

6.1.1 Central Valley Project

The Central Valley Project (CVP) water supply consists of the CVP contract held by SCWA and the two Sacramento Municipal Utilities District (SMUD) assignments that total 45,000 acre feet per year (ac-ft/yr). Most of the CVP water is diverted at the Freeport diversion on the Sacramento River and treated at the Vineyard SWTP. Some of the CVP supplies are diverted from the Sacramento River and treated at the City's Sacramento River Surface Water Treatment Plant and delivered to SCWA at the Franklin Intertie.

SCWA entered into a contract in April 1999 with the Reclamation for 22,000 ac-ft/yr of CVP supplies pursuant to Public Law (PL) 101-514. This contract is often referred to as "Fazio Water" in recognition of the efforts by Congressman Vic Fazio to secure this contract. Of this 22,000 ac-ft/yr, 7,000 ac-ft/yr has been subcontracted to the City of Folsom for diversion from Folsom Lake, with 15,000 ac-ft/yr available for SCWA through the Freeport diversion or Franklin Intertie.

SCWA has entered into two three-party agreements with the City of Sacramento and SMUD for the assignment to SCWA for a total of 30,000 ac-ft/yr of water from SMUD's existing contract with Reclamation. These assignments are often referred to as "SMUD I" and "SMUD II".

SCWA's total CVP supply is subject to reductions in dry years. The water supply allocations are defined by Reclamation on a year to year basis and are expressed as a percentage of either the contract amount or amount of average use. For the 21 year period of 1995 to 2015, the lowest allocation was in 2015 when it was established as 25 percent of the previous three years average unconstrained use.

The water supply allocations are based on a draft policy that defines water shortage terms and conditions. Reclamation initiated the development of a Municipal and Industrial (M&I) Water Shortage Policy in 1992, with several proposals prepared through 2001. The 2001 draft water shortage policy states that Reclamation would reduce M&I water to a contractor once irrigation water allocations are reduced below 75 percent of the contract amount. Reclamation has a provision in the draft policy for a minimum M&I shortage allocation of 75 percent that is applied to the last three years of historical use with certain adjustments, although the actual allocation in 2014 was 75 percent and in 2015 it was 25 percent of the use during the previous three unconstrained years. In 2010, Reclamation convened several workshops that will lead to the development of an Environmental Impact Statement that could potentially modify the existing policy or develop a new policy (US, 2011). This process has not been completed.

6.1.2 City of Sacramento's American River Place of Use Water Supply

A portion of Zone 40 lies within the City of Sacramento's American River Place of Use (POU). The City of Sacramento has a pre-1914 water right to the American River with a POU boundary that extends beyond the City's boundary and includes a portion of Zone 40. The amount of water available to serve the POU area within Zone 40 is estimated to be 9,300 ac-ft/yr. SCWA is planning for the future wholesale delivery of American River water within the POU. A connection would be constructed to supply the Florin Vineyard Community Plan area of the Laguna Vineyard water system, with the timing based on when the supply is actually needed.

The City of Sacramento's diversions from the American River at the Fairbairn Water Treatment Plant are reduced when American River flows are less than the Hodge Flow Criteria, which would likely result in no POU water being available for SCWA in these circumstances. The City of Sacramento may decide to divert water during these restricted times at their Sacramento River diversion, although additional infrastructure might need to be constructed by the City of Sacramento to be able to convey this water to SCWA. It might be possible for SCWA to divert the POU water at the Freeport diversion. Given the uncertainty of the availability of POU water during dry periods, a supply allocation of zero percent is assumed for dry years and 100 percent for normal climate years.

6.2 Surface Water

SCWA has an appropriative water supply that is self-supplied surface water that is drawn from the Sacramento River. In February 2008, the State Water Resources Control Board (SWRCB) approved SCWA's appropriative right permit application to divert water from the American and Sacramento Rivers (Permit 21209). The amount of appropriated water available for use could range up to 71,000 ac-ft/yr in wet years, primarily during the winter months. This water would be diverted at the Freeport diversion on the Sacramento River. Since SCWA's demands are low in the winter months, it is possible that not all of this supply could be utilized without the ability to store the water.

6.3 Groundwater

Groundwater is a vital source of supply for SCWA. Groundwater is supplied by SCWA's system of groundwater wells and as remediated groundwater that is extracted by others.

The Arden Park Vista, Northgate 880, Hood, East Walnut Grove, and Mather Sunrise water systems are completely reliant on groundwater. The Mather Sunrise system is planned to be supplied also by purchased water and surface water in the near future. The Laguna Vineyard system is supplied by groundwater as well as purchased water, surface water, and a small amount of recycled water. Laguna Vineyard system depends on mostly groundwater during dry years when available surface water supplies are reduced. The groundwater is supplied by a system of groundwater wells and groundwater treatment plants.

This section provides a description of SCWA's groundwater supplies including descriptions of the applicable groundwater basins, the status of groundwater management, overdraft conditions, historical groundwater pumping, and the remediated groundwater supply.

6.3.1 Groundwater Basin Description

The Arden Park Vista system is supplied by groundwater from the Sacramento Valley Groundwater Basin, North American Subbasin (5-21.64) and Zone 40 system is supplied groundwater from the South American Subbasin (5-21.65).

The Water Forum Agreement divided the groundwater basin in Sacramento County into three portions as shown on Figure 6-1. The North Basin identified in Figure 6-1 is the southern portion of the North American Subbasin (5-21.64). The Central Basin's boundaries shown on Figure 6-1 are similar to the boundaries of the
South American Subbasin (5-21.65), although there are some differences. Both the North and Central Basins have had on going groundwater management efforts as described below in Section 6.3.2

Some of the other groundwater purveyors in the North American and South American Subbasins are listed in Table 6-1.

Table 6-1. Other Known Groundwater Basin Purveyors							
North American Subbasin (5-21.64)	South American Subbasin (5-21.65)						
City of Sacramento	City of Sacramento						
Sacramento Suburban Water District	Golden State Water Company						
California American Water Company	California American Water Company						
Rio Linda/Elverta Community Water District	Fruitridge Vista Water Company						
Golden State Water Company	Elk Grove Water District						
Citrus Heights Water District	Florin County Water District						
Fair Oaks Water District	Tokay Park						
Orangevale Mutual Water Company							
Del Paso Manor Water District							
Carmichael Water District							
City of Roseville							
Natomas Central Mutual Water Company							



Figure 6-1. Groundwater Basins in Sacramento County

North American Subbasin (5-21.64)

The historical use of groundwater in the North American Subbasin (5-21.64) has resulted in a general lowering of groundwater levels that have stabilized in recent years. These depressions have grown and coalesced into a single cone of depression centered in the area of the prior McClellan Air Force Base. Groundwater elevations in the eastern and western areas of the North American Subbasin (5-21.64) have been fairly stable, while the central area (within the cone of depression) experienced continuing decline every year until groundwater levels stabilized and had some recovery starting in the late 1990s. The groundwater level stabilization in the cone of depression was due, at least in part, to expanded conjunctive use operations by water agencies in this area.

The groundwater quality in the North American Subbasin (5-21.64) is generally excellent. Most municipal wells do not need any treatment to meet drinking water standards other than disinfection. However, there are some wells that have iron and manganese treatment, as well as locations with elevated levels of arsenic and hexavalent chromium. There are several groundwater contaminant plumes and some point sources of contamination (e.g., leaking underground storage tanks). The three groundwater contaminant plumes emanate from source areas at the prior McClellan Air Force Base, the Roseville railroad yard, and the Aerojet in Rancho Cordova. The presence of these contaminant plumes has damaged some existing municipal wells and limits the construction of new municipal wells in the vicinity of the contaminant plumes. Significant remediation efforts/programs by federal, state, and local government agencies are in progress to confine and clean up the contaminated groundwater.

South American Subbasin (5-21.65)

Intensive groundwater extraction from the South American Subbasin (5-21.65) in the past has resulted in a general lowering of groundwater elevations. These depressions have grown and coalesced into a single cone of depression centered near Elk Grove. With the completion of the Freeport Regional Water Authority (FRWA) project and SCWA's Vineyard SWTP, the groundwater levels are anticipated to stabilize as the conjunctive use program is fully implemented.

The groundwater quality in the South American Subbasin (5-21.65) is generally good, although iron and manganese is common and there are some occurrences of arsenic and nitrate. Most of SCWA's Zone 40 wells have iron and manganese treatment facilities.

Principal groundwater contaminant plumes within the South American Subbasin (5-21.65) emanate from source areas including Mather Field, Aerojet, Boeing, the former Army Depot, and various landfills. The presence of these contaminant plumes has impacted some existing municipal wells. Significant remediation efforts/programs by federal, state, and local government agencies are in progress to clean up the contaminated groundwater and to confine the contaminant plumes from further spreading. Currently, remediated groundwater is discharged into natural water bodies and flows out of the South American Subbasin (5-21.65). There are on-going discussions and negotiations between purveyors and parties responsible for the clean-up to keep the remediated groundwater in the South American Subbasin (5-21.65) and put it to beneficial use.

6.3.2 Groundwater Management

This section describes the groundwater management efforts that have been occurring in the North American Subbasin (5-21.64) and the South American Subbasin (5-21.65). Neither subbasin has been adjudicated. Activities to meet the Sustainable Groundwater Management Act (SGMA) requirements are also described.

North American Subbasin (5-21.64)

The groundwater in the North Basin portion of the North American Subbasin (5-21.64) is managed by the Sacramento Groundwater Authority (SGA). SGA draws its authority from a joint powers agreement signed by the cities of Citrus Heights, Folsom, and Sacramento and the County of Sacramento to exercise their

common police powers to manage the underlying groundwater basin. The goal of the SGA is to ensure a viable groundwater resource for beneficial uses including agricultural, industrial, and municipal supplies that support the Water Forum Agreement's co-equal objectives of providing a reliable and safe water supply and preserving the fishery, wildlife, recreational, and aesthetic values of the lower American River.

The SGA Groundwater Management Plan was first completed in December 2003 and updated in December 2008. The SGA prepares a biannual report to evaluate progress on Groundwater Management Plan (GMP) implementation and to report on basin conditions. The most recent groundwater management plan and biennial report are located at SGA's website at www.sgah2o.org.

South American Subbasin (5-21.65)

The groundwater in the Central Basin portion (as shown in Figure 4-2) of the South American Subbasin (5-21.65) is managed by the Sacramento Central Groundwater Authority (SCGA). SCGA was formed in 2006 through a joint powers agreement signed by the Cities of Elk Grove, Folsom, Rancho Cordova, and Sacramento, and the County of Sacramento. SCGA was formed for several purposes including maintaining the long-term sustainable yield of the Central Basin, managing the use of groundwater in the Central Basin, and facilitating the implementation of a conjunctive use program.

The SCGA Groundwater Management Plan, which was adopted in 2006, establishes a framework for maintaining sustainable groundwater resources in the Central Basin. This framework includes specific goals, objectives, and an action plan to manage the basin. The SCGA Groundwater Management Plan also prescribes a well protection program to protect existing private domestic well and agricultural well owners from declining groundwater levels resulting from increased groundwater pumping due to new development in the basin. The SCGA Groundwater Management Plan includes a detailed groundwater management implementation plan to comply with the requirements of their basin management objectives. Additionally, SCGA prepares a biennial report to evaluate progress on Groundwater Management Plan implementation and to report on basin conditions. The most recent groundwater management plan and biennial report are located at SCGA's website at www.scgah2o.org.

Sustainable Groundwater Management Act

The Sustainable Groundwater Management Act (SGMA) was enacted by the legislature in 2014, with subsequent amendments in 2015. SGMA requires groundwater management in priority groundwater basins, which includes the formation of Groundwater Sustainability Agencies (GSAs) and the development of Groundwater Sustainability Plans (GSPs) for groundwater basins or subbasins that are designated by DWR as medium or high priority.

The designation of the priority of groundwater basins was done as part of the California Statewide Groundwater Elevation Monitoring (CASGEM) Program. CASGEM was developed in response to legislation enacted in California's 2009 Comprehensive Water package. The CASGEM Groundwater Basin Prioritization is a statewide ranking of groundwater basin importance that incorporates groundwater reliance and focuses on basins producing greater than 90 percent of California's annual groundwater. The CASGEM Program has ranked both the North American Subbasin (5-21.64) and the South American Subbasin (5-21.65) as high priority.

SGMA directs DWR to identify groundwater basins and subbasins in conditions of critical overdraft. DWR identified such basins in Bulletin-118, 1980 and Bulletin 118, Update 2003. DWR issued an updated draft list of critically overdrafted basins in July 2015. Neither of the two subbasins that supply SCWA are on the list.

Groundwater basins designated as high or medium priority and critically overdrafted must be managed under a GSP by January 31, 2020. All other high and medium priority basins must be managed under a GSP by January 31, 2022. The two subbasins that supply SCWA are covered by the latter deadline.

A GSA must be formally established by June 30, 2017. The GSA will have enforcement authority over their designated portion of the basin. There are three options for preparing a GSP and forming a GSA, as follows:

- A single GSP covering the entire basin developed and implemented by one GSA.
- A single GSP covering the entire basin developed and implemented by multiple GSAs.
- Multiple GSPs implemented by multiple GSAs and coordinated pursuant to a single coordination agreement that covers the entire basin.

The various agencies that are located in the North American Subbasin (5-21.64) have been in discussions to explore options for the organization of one or more GSA's. It is likely that the North American Subbasin (5-21.64) will have several GSAs and possibly several GSPs. SGA filed a notice with DWR on October, 20, 2015 that it intends to be the GSA for a portion of the North American Subbasin (5-21.64).

The SCGA is currently in discussions with other groundwater basin users of the South American Subbasin (5-21.65) to evaluate options for management of the basin.

6.3.3 Overdraft Conditions

As mentioned in the previous subsection, the North American Subbasin (5-21.64) and the South American Subbasin (5-21.65) are not on the draft list of critically overdrafted basins issued by DWR in July 2015.

According to the Water Forum Agreement, the long-term average annual groundwater pumping from the North Basin is limited to 131,000 ac-ft/yr and the Central Basin is limited to 273,000 ac-ft/yr. No specific annual groundwater pumping amount has been defined for SCWA in the Central Basin. In June 2010, the SGA developed Phase III of the Water Accounting Framework which established a combined sustainable pumping estimate of 4,288 ac-ft/yr for SCWA's Arden Park Vista and Northgate 880 systems (SGA, 2010). It is expected that the GSPs that will be developed for the North American Subbasin (5-21.64) and the South American Subbasin (5-21.65) will establish the safe yields.

6.3.4 Historical Groundwater Pumping

Table 6-2 presents the amount of groundwater pumping by SCWA that has occurred over the last five years.

Table 6-2 (DWR Table 6-1 R&W) Retail and Wholesale: Groundwater Volume Pumped, ac-ft/yr								
Groundwater type	Location or basin name	2011	2012	2013	2014	2015		
Alluvial basin	Sacramento Valley Groundwater Basin, North American Subbasin (5-21.64)	4,654	5,076	5,316	4,602	3,877		
Alluvial basin	Sacramento Valley Groundwater Basin, South American Subbasin (5-21.65)		25,553	23,512	23,179	20,775		
Total		34,626	30,629	28,828	27,781	24,652		

Notes: Source of data is spreadsheet workbook file entitled "SCWA 2015 UWMP_ Connection and Consumption Data.xlsx" provided by Dan Gwaltney in email dated January 12, 2016.

Amounts include groundwater that was supplied to wholesale customers.

Groundwater remediation water not included because it was not pumped by SCWA.

6.3.5 Remediated Groundwater

SCWA has a remediated groundwater supply of 8,900 ac-ft/yr in accordance with the terms and conditions in the agreement entitled "Agreement between Sacramento County, SCWA, and Aerojet-General Corporation With Respect To Transfer of GET Water" dated May 18, 2010. The timing and amount of remediated groundwater available is subject to change as a result of on-going negotiations with water purveyors affected by groundwater contamination and with Aerojet/Boeing as their remediation plans may change as directed by various regulatory agencies. The remediated groundwater is pumped from the northern portion of the South American Subbasin (5-21.65) and discharged into the American River from Aerojet's Groundwater clean-up operations. This remediated groundwater supply is diverted by SCWA from the Sacramento River at Freeport along with SCWA's surface water supplies.

6.4 Stormwater

Stormwater is not currently used as an urban water supply source. SCWA may consider the use of stormwater at a future time.

6.5 Wastewater and Recycled Water

The purpose of this section is to provide information on recycled water and its potential as a resource for Zone 40. The elements of this section include: (1) the quantity of wastewater generated in the service area, (2) description of the collection, treatment, and disposal/reuse of that wastewater, (3) current water recycling systems, and (4) the potential for water recycling in the service area.

6.5.1 Recycled Water Coordination

The Sacramento Regional County Sanitation District (SRCSD) is responsible for the collection, treatment, disposal, and reuse of wastewater throughout most of the urbanized areas of Sacramento County. This includes much of the area where SCWA provides retail water service.

Through an agreement, SRCSD has successfully implemented a nominal capacity of 5 million gallons per day (MGD) water recycling program with SCWA. Starting in 2003, this program provides recycled water for SRCSD on-site uses and for large commercial irrigation customers within a portion of the Laguna Vineyard water system service area (e.g., commercial, industrial, right-of-way landscaping, schools, and parks). Recycled water is a desirable source of water for outdoor landscape irrigation and other non-potable uses because of its high reliability and its independence of hydrologic conditions in any given year.

In 2007, SRCSD completed the Water Reuse Opportunity Study (WROS) to identify opportunities for water recycling program growth through 2030 (SRCSD, 2007). SRCSD's objective is to increase water recycling usage in the Sacramento region during peak irrigation months to 30 MGD to 40 MGD. Water recycling on this scale will allow SRCSD to better manage its effluent discharge to the Sacramento River and could help Sacramento area water purveyors improve water supply availability and reliability. The WROS effort included significant outreach to stakeholders that could participate in SRCSD's future water recycling plans. The WROS provides the following:

- 1. Studied areas throughout the Sacramento region to identify potential water recycling opportunities,
- 2. Engaged potential water recycling partners and stakeholders,
- 3. Developed, assessed, and prioritized potential water recycling projects, and
- 4. Provided a strategy to further develop and implement the projects initially selected to move forward in achieving the stated goals of a large-scale water recycling program.

The WROS examined and identify potential opportunities to use recycled water for landscape irrigation, agriculture irrigation, commercial irrigation, golf course irrigation, as well as use as industrial processing water.

The agencies and their respective roles in water reuse planning are described in Table 6-3.

Table 6-3. Participation in Reuse Planning							
Participating agencies	Role						
Sacramento Regional County Sanitation District	As the only agency with wastewater collection and treatment authority, SRCSD developed a Water Recycling Opportunities Study (WROS) to identify reuse supply and projects for implementation. SRCSD is a member of RWA and actively seeks input from water purveyors on reuse supply and planning issues.						
Regional Water Authority	Provides input and review of SRCSD's reuse planning process and recommendations. Updates SRCSD on supply issues and where/how reuse could become part of supply integration.						
Sacramento Central Groundwater Authority	Provides input and review of SRCSD's reuse planning process and recommendations. Updates SRCSD on supply issues and where/how reuse could become part of supply integration.						
Sacramento County Water Agency	Provides input to SRCSD on localized water demands and supply to highlight where reuse is most feasible. SCWA is responsible for recycled water distribution system operation and maintenance for the current recycled water system in the South Service Area.						

6.5.2 Wastewater Collection, Treatment, and Disposal

Municipal wastewater is generated from a combination of residential and commercial sources. The quantity of wastewater generated is proportional to the population and water use in the service area. An estimate of wastewater generated within SCWA's service area is presented in Table 6-4.

Wastewater is collected by gravity in a series of main, trunk, and interceptor sewers owned and operated by SRCSD. Collected wastewater is transported to the Sacramento Regional Wastewater Treatment Plant in Elk Grove. This facility serves the entire Sacramento metropolitan area including the unincorporated county area adjacent to the Cities of Elk Grove, Citrus Heights, Folsom, and Rancho Cordova. The current capacity of the plant to treat dry weather flows is approximately 181 MGD. The plant produces a disinfected secondary effluent that is discharged to the Sacramento River downstream from the community of Freeport. The principal treatment processes are primary sedimentation, pure-oxygen activated sludge, secondary sedimentation, and chlorination/dechlorination.

The Sacramento Regional Wastewater Plant is currently being upgraded to produce cleaner water for discharge to the Sacramento River and for water reuse. Upgrades to the treatment plant include nutrient removal, filtration, and additional disinfection. Upgrades are planned to be completed by 2023.

third party?

area?

Table 6-4. (DWR Table 6-2 R) Wastewater Collected Within Service Area in 2015									
100	Perce	Percentage of 2015 service area covered by wastewater collection system							
100	Percentage of 2015 service area population covered by wastewater collection system								
Wastewater collection			Receiving wastewater treatment						
Name wastew collect	e of vater tion	Wastewater volume metered or	Volume of wastewater collected from UWMP service area 2015, ac-	Name of wastewater treatment agency receiving	Treatment plant name	Is WWTP located within UWMP	Is WWTP operation contracted to a		

collected wastewater

ft/yr

Add additional rows as needed

agency

estimated?

Sacramento Regional County Sanitation District	estimated	15,000	Sacramento Regional County Sanitation District	Sacramento Regional Wastewater Treatment Plant	No	No
Total wastewater collected from service area in 2015		15,000				
Notes:						

A summary of wastewater volumes treated, discharged, and recycled by SRCSD in 2015 is provided in Table 6-5.

Table 6-5. (DWR Table 6-3 R) Retail: Wastewater Treatment and Discharge Within Service Area in 2015, ac-ft/yr										
				ater Method Method vastewater ge of generated disposal outside the service area?	Does this		2015 volumes (ac-ft)			
Wastewater treatment plant name	Discharge location name or identifier	Discharge location description	Wastewater discharge ID number		Treatment level	Wastewater treated	Discharged treated wastewater	Recycled within service area	Recycled outside of service area	
Sacramento Regional Wastewater Treatment Plant	Sacramento River	Near Freeport		River or creek outfall	Yes	Secondary, Disinfected- 23	142,185	118,688		
Sacramento Regional Wastewater Treatment Plant	Zone 40 recycled water system	West part of City of Elk Grove in Laguna- Vineyard system		Other		Tertiary			575	
						Total	142,185	118,688	575	

6.5.3 Recycled Water System

Tertiary treated wastewater is supplied from SRCSD's Water Reclamation Facility to a part of the Laguna Vineyard system that is shown on Figure 3-1 as the Recycled Water System Area. The 5 MGD Water Reclamation Facility is located at the Sacramento Regional Wastewater Treatment Plant site. SCWA owns and maintains the recycled water distribution system. This program is called the Phase I SRCSD/SCWA Water Recycling Pilot Program (WRPP).

The Phase 1 portion of the program has 54 user sites which include parks, schoolyards, commercial landscaping, and roadway medians. Phase I recycled water usage has reached a peak operation of 3.0 MGD and an average daily water recycling usage in the range of 1.0 – 1.5 MGD. All operations are conducted in accordance with the Regional Water Quality Control Board (RWQCB) and State Water Resources Control Board recycled water standards and SRCSD's Master Reclamation Permit Waste Discharge Requirement (WDR) #97-146).

6.5.4 Recycled Water Beneficial Uses

The most commonly used category of recycled water is defined as wastewater that has been treated to tertiary standards that meet Title 22 of the California Code of Regulations. Recycled water treated to this level can be used for many types of beneficial uses, including for outdoor irrigation demands such as for parks, schools, street medians, residential front and backyard landscaping, and public open space, as well as for industrial uses such as cooling water. Additionally, recycled water is commonly used for environmental purposes such as wetland and habitat restoration.

SRCSD is currently in the process of implementing the South Sacramento County Agriculture and Habitat Lands Recycled Water Program. Benefits include protecting surface water and groundwater supplies by providing 52,000 ac-ft/yr of recycled water to irrigate permanent agriculture and habitat lands. Another benefit is the augmentation of regional water supplies and restoration of groundwater elevations in that area. Facilities that will be needed include water transmission and distribution pipelines and treatment, pumping, and storage facilities. SCWA could potentially tap into the proposed pipeline to access recycled water supply. Since the proposed area where this recycled water would be used is outside of SCWA's service area, it is not included in the recycled water projections.

Table 6-6 presents the projected possible reuse water demands for landscape irrigation in SCWA's service area. SCWA is planning to initiate a recycled water feasibility study in 2016 that will take a comprehensive look at various options for expanding recycled water use.

Table 6-6. (DWR Table 6-4 R) Retail: Current and Projected Recycled Water Direct Beneficial Uses Within Service Area, ac-ft/yr

 Recycled water is not used and is not planned for use within the service area of the supplier.

 Name of agency producing (treating) the recycled water:
 Sacramento Regional County Sanitation District

Name of agency operating the recycled water distribution system: Supplemental water added in 2015		Sacramento County Water Agency 170						
Beneficial use type	General description of 2015 uses	Level of treatment	2015	2020	2025	2030	2035	2040 (opt)
Agricultural irrigation								
Landscape irrigation (exc golf courses)		Tertiary	575	1,700	1,700	1,700	1,700	1,700
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 (provide general description)								
		Total	575	1,700	1,700	1,700	1,700	1,700
*IPR – Indirect Potable Reuse		· · · ·						

Notes: The projected future amount of recycled water could be increased as a result of the recycled water feasibility study that SCWA is preparing in 2016.

Table 6-7 shows actual recycled water use in 2015 compared to what was projected in the previous Plan. The goal was under achieved primarily because of the recent downturn in development and lack of available funding.

Use type	2010 Projection for 2015	2015 actual use
Agricultural irrigation		
Landscape irrigation (ex golf courses)	1,700	575
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		
Total	1,700	575

6.5.5 Actions to Encourage and Optimize Future Recycled Water Use

The installation of a recycled water distribution system as a "retrofit," or the installation of a recycled water system after development entitlements have been granted or where infrastructure is already in place, is highly unlikely for economic reasons. New growth areas, as well as areas that are currently served nonpotable water supplies from another source, are good candidates for recycled water use.

Since much of the potential for new growth in Sacramento County is in SCWA's service area, the opportunity for expanding the recycled water program is more likely in that area. The economic question of obtaining additional surface water supplies or making best use of recycled water will be one of many factors in determining which areas are likely to move forward with recycled water. Other factors include environmental benefits, long-term sustainability of regional water supplies, as well as other societal and long-term benefits.

In areas where groundwater supplies are not readily available or constrained or where surface water supplies are constrained based on hydrologic year type, recycled water is often seen as reliable source of supply that could extend existing water supplies to meet demands beyond those previously contemplated.

Another method to encourage recycled water use is meeting groundwater basin management objectives. For example, providing recycled water for landscape and/or agriculture irrigation that currently relies on groundwater would reduce total groundwater extraction in the basin.

Lastly, providing a financial incentive can also encourage recycled water use.

Table 6-8 shows that SCWA is planning to prepare a recycled water feasibility study to evaluate the projected recycled water demand in SCWA's service area and the actions to encourage recycled water use. Alternatives that will be evaluated consist of expansion of the existing recycled water program, direct reuse, indirect reuse, and the status quo.

Expanding recycled water use is the result of combined efforts including planning, financial incentives, as well as environmental benefits. It is not possible to separate the results for each individual action taken. A combination of factors will result in the projected use of recycled water in the future including a lower recycled water unit cost compared to the potable water unit cost, the requirement of recycled water use in the future, the increased reliability of recycled water as compared to the water supply from groundwater and surface water supply sources, and the increase in installation of dedication landscape meters. Customers may be allotted a higher water use budget for recycled water use compared to those customers using potable water for their landscape water needs.

Table 6-8. (DWR Table 6-6 R) 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.								
Description	Planned implementation year	Expected increase in recycled water use						
Expanding the existing recycled water system, indirect potable reuse, and direct potable reuse will be considered.	Recycled Water Feasibility Study to be completed in 2017.	Not quantified until Recycled Water Feasibility Study is completed.						
	Total	Will be identified in Recycled Water Feasibility Study.						
	Table 6-8. (DWR Table 6-6 R) Retail: Methods Supplier does not plan to expand recycled water uprovide narrative explanation. Provide page location of narrative in UWMP. Description Expanding the existing recycled water system, indirect potable reuse, and direct potable reuse will be considered.	Table 6-8. (DWR Table 6-6 R) Retail: Methods to Expand Future Recycled Water Supplier does not plan to expand recycled water use in the future. Supplier will not comprovide narrative explanation. Provide page location of narrative in UWMP. Description Planned implementation year Expanding the existing recycled water system, indirect potable reuse, and direct potable reuse will be considered. Recycled Water Feasibility Study to be completed in 2017.						

6.6 Desalinated Water Opportunities

While limited sources of brackish groundwater do exist within the region, it would be cost prohibitive to install desalination treatment to be able to use these supplies. SCWA has no plans to develop or implement a desalination program as a future supply source.

6.7 Exchanges or Transfers

Other sources of water for SCWA are water transfers. The water transfer supply would be obtained from various water users that hold surface water rights on the Sacramento River and the American River upstream of SCWA's point of diversion. To obtain these supplies, SCWA would enter into purchase and transfer agreements with other entities that hold surface water rights upstream of SCWA's points of diversion. There are Sacramento River water supplies available for transfer in dry years, although the costs of these dry year supplies can exceed \$500 per ac-ft. The assumed quantity of other water supplies is 9,600 ac-ft/yr in dry years and no supplies transferred in wet years. The amount of water transfer supplies that would be needed would vary depending on the amount of supplies actually needed to close the gap between SCWA's other supplies and demands.

6.8 Future Water Projects

Table 6-9 provides a summary and schedule of the SCWA's planned water supply projects that are planned through 2040 to meet projected water demands and continue to provide supply reliability. SCWA has plans to construct additional water supply projects after 2040.

Table	e 6-9. (DWR 1	fable 6-7 R&W) Retai	l and Wholesale: Expected Fi	uture Water Supply Proje	ects or Programs					
	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.									
	Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format.									
	Provide page	location of narrative in t	ne UWMP							
Name of future projects or programs	Joint project with other agencies?		Description	Planned	Planned for use in	Expected increase in				
	(Y/N)	If yes, agency name	(if needed)	Implementation year	year type	agency, ac-ft/yr				
Phase A NSA Project	No			2020	All year types	9,000				
Disconnection of Anatolia GWTP ^(a)	No			2020	All year types	-4,000				
Phase B NSA Project	No			2025	All year types	27,000 ^(b)				
Poppy Ridge GWTP Expansion	No			2025	All year types	4,000				
West Jackson GWTP	No			2035	All year types	10,000				
Big Horn GWTP Expansion	No			2035	All year types	5,000				

Notes: These projects will expand infrastructure capacity to allow SCWA to utilize more of its available water supplies. The expected increase in supplies includes supply for the wholesale customers. The retail and wholesale breakdown of the supplies from each project is not specifically known.

^(a) The decline in groundwater capacity is because the Excelsior wells will be put on standby until the West Jackson GWTP is constructed.

(b) With the existing capacity of the Vineyard SWTP, this project plus the Phase A NSA Project will combined be able to deliver 18,000 ac-ft/yr of surface water to the NSA. The full capacity of this project will not be utilized until the Vineyard SWTP is expanded.

6.9 Summary of Existing and Planned Sources of Water

Table 6-10 presents SCWA's water supplies and amounts delivered in 2015 for its retail water systems. Table 6-11 presents the wholesale water supplies delivered in 2015.

Table 6-10. (DWR Table 6-8 R) Retail: Water Supplies — Actual, ac-ft/yr								
		2015						
Water supply	Additional detail on water supply	Actual volume	Water quality	Total right or safe yield				
Purchased or imported water	CVP water	115	Drinking water	45,000				
Surface water	Appropriative water	2,125	Drinking water	71,000				
Groundwater		21,963	Drinking water					
Groundwater	Remediated groundwater	4,176	Drinking water	8,900				
Transfers	Other surface water supplies	0	Drinking water	9,600				
Recycled water		575	Drinking water	1,700				
Raw water		170	Raw water					
Other	Supply for SW Tract	25	Drinking water					
Total		29,149		136,200				

Notes: Water supplies for SCWA's retail systems determined by using total production and then subtracting out the deliveries to wholesale customers that include system losses.

The amount of CVP water, appropriative water, and remediated groundwater supplied in 2015 based on the Freeport intake amounts provided in email from Dave Zuccaro dated April 19, 2016. The amounts have been proportioned down to reflect the supply provided from the Vineyard SWTP using a total of 6,959 ac-ft at Freeport versus a supply of 6,416 ac-ft/yr at Vineyard SWTP.

The safe yield of the groundwater supply has not been determined.

Table 6-11. (DWR Table 6-8 W) Wholesale: Water Supplies – Actual, ac-ft/yr

			2015				
Water supply	water supply	Actual volume	Water quality	Total right or safe yield			
Purchased or imported water	CVP water	0	Drinking water	0			
Surface water	Appropriative water	0	Drinking water	0			
Groundwater		2,689	Drinking water				
Groundwater	Remediated groundwater	0	Drinking water	0			
Transfers	Other surface water supplies	0	Drinking water	0			
Recycled water		0	Recycled water	0			
Total		2,689					

Notes: It is assumed for the purpose of this Plan that wholesale water is supplied by groundwater. There could be varying amounts of some surface water included in the wholesale supply that have not been quantified.

The projected annual availability of each water supply is constrained by available water infrastructure capacity. The projected reasonably available water supply volume for SCWA's retail water systems for the next 25 years during a normal climate year considering facility capacity constraints is projected in Table 6-12.

The availability of each water supply type on an annual basis is projected based on the assumption that the proportional annual mix of supplies is the same as that on the day of maximum demand. The actual annual use of supplies could somewhat differ from the presented values if SCWA took an operational approach that would result in the annual mix of supplies being different than the mix of supplies used during the day of maximum demand.

Table 6-13 presents the projected water supplies available for wholesale customers. It is assumed in Table 6-13 that wholesale water customers would be provided the supply needed to meet their demands. The supply available for SCWA's retail water systems is assumed to be the total supply available minus the supply available for the wholesale customers.

		Ta	able 6-12. (DWF	R Table 6-9 R) F	Retail: Water Su	ıpplies — Proje	cted, ac-ft/yr				
		Projected Water Supply Report To the Extent Practicable									
	Additional detail on	20)20	2025		20	30	2035		2040	
Water supply	water supply	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield						
Purchased or imported water	CVP water. SCWA may vary this amount in combination with the appropriative surface water, remediated groundwater, and transfer supplies so that the combined total does not exceed the total annual demand that the Vineyard SWTP can supply of approximately 34,200 ac-ft/yr.	21,300	45,000	21,300	45,000	21,300	45,000	21,300	45,000	21,300	45,000
Purchased or imported water	City of Sacramento supply. Not planned for use until the interconnection with the City is constructed after 2040.	0	9,300	0	9,300	0	9,300	0	9,300	0	9,300
Surface water	Appropriative water. SCWA may vary this amount as described for purchased water.	4,000	71,000	4,000	71,000	4,000	71,000	4,000	71,000	4,000	71,000
Groundwater	Available volume based on groundwater supply capacity. Safe yield not quantified.	47,000		47,000		52,000		62,000		62,000	
Groundwater	Remediated groundwater. SCWA may vary this amount as described for purchased water.	8,900	8,900	8,900	8,900	8,900	8,900	8,900	8,900	8,900	8,900
Transfers	Other surface water supplies. SCWA may vary this amount as described for purchased water.	0	9,600	0	9,600	0	9,600	0	9,600	0	9,600
Recycled water		1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
Total		82,900	145,500	82,900	145,500	87,900	145,500	97,900	145,500	97,900	145,500

	Table 6-13. (DWR Table 6-9 W) Wholesale: Water Supplies – Projected, ac-ft/yr										
Water supply			Projected water supply report to the extent practicable								
		2020		2025		2030		2035		2040	
	Additional detail on water supply	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield
Groundwater		5,000		5,000		6,000		7,000		7,000	
Total		5,000		5,000		6,000		7,000		7,000	

6.10 Energy Intensity

Reporting of the energy intensity associated with sources of water is a voluntary item. Water energy intensity is the total amount of energy on a per ac-ft basis associated with water management processes occurring within the SCWA's operational control. SCWA has selected to report its energy intensity using the total utility approach option B. Table 6-14 presents the energy intensity of SCWA's water supplies for the year 2015.

Table 6-14. (DWR Table 0-1B) Voluntary Energy Intensity-Total Utility Approach

Urban water supplier:	Sacramento County Water Agency				
Water delivery product					
Retail and wholesale potable water deliveries					
Table O-1B: Voluntary energy intensity - total utility	y approach				
Enter start date for reporting period	1/1/2015	likken weter supplier energtional central			
End date	12/31/2015	orban water supplier operational control			
		Sum of all water management processes	Non-consequential hydropower		
		Total utility	Hydropower	Net utility	
	Volume of water entering process (ac-ft)	31,068	0	0	
	Energy consumed (kWh)	21,792,052	0	0	
	Energy intensity (kWh/ac-ft)	701.4	0.0	0.0	
Quantity of self-generated renewable energy		·	·		
	kWh				
Data quality					
Metered data					
Data quality narrative:					

Data obtained from power billings based on metered usage. Power amount includes power for the administrative and shop buildings at the Vineyard SWTP. Volume of water is total water production from wells and Vineyard SWTP and includes supplies for both retail and wholesale customers.

6.11 Climate Change

Climate change is anticipated to have an impact on water demands and supplies. SCWA is a member of the Regional Water Authority that prepared the American River Basin Integrated Regional Water Management Plan (IRWMP) (RWA, 2013). One of the elements in the IRWMP is the identification and prioritization of areas of potential vulnerability to climate change impacts. The resulting Climate Change Vulnerability Assessment is presented in Appendix J. The vulnerability assessment highlights the water resources that are important to the region and are sensitive to climate change. The identified highest priority vulnerabilities in the region pertinent to urban water demands and supplies are as follows:

• Reduced water supply reliability due to the region's reliance on snowpack, existing storage capacity limitations, and increased drought potential. The projected reductions of Sierra snowpack, earlier snowmelt runoff, and more frequent and longer periods of drought would reduce water supply reliability for the region.

A quantitative vulnerability assessment was done in the IRWMP to evaluate the impacts of climate change on water resources in the region. The quantitative assessment indicates that surface water supplies would be reduced and would be mostly associated with reduced diversions from the American River. The analysis projected that the annual surface water deliveries at Freeport would increase by 2 percent. The long-term average monthly surface water deliveries would increase by 3 to 9 percent from May to July and decrease by 9 percent from August to September under climate change conditions. Increased groundwater pumping would occur to meet urban and agricultural demands. The long term average groundwater pumping in the central groundwater basin would increase by 6 percent. Groundwater elevations would decrease from 6 to 15 feet from the baseline condition in SCWA's service area.

Planned actions to address noted vulnerabilities from the climate change assessment include decreasing urban per capita water demand and continuing current efforts such as implementing conjunctive use management, recycled water use, and interconnections between adjacent water purveyors. SCWA will update this Plan every five years and utilize the latest available data to plan for climate change effects.

Purchased wholesale CVP water from Reclamation is SCWA's primary source of surface water supply. Reclamation recently completed the Sacramento and San Joaquin Basins Study (Reclamation, 2016) that evaluates the potential impacts of climate and socioeconomic changes. The evaluation concluded that unmet water demands would increase slightly in the Sacramento River watershed. Unmet demands are the gaps between supplies and demands. No specific conclusions were made regarding the impacts of climate change on the specific availability of CVP supplies.



Section 7 Water Supply Reliability

This section describes constraints on water sources and reliability by climate year type and provides a comparison of projected water supplies and demands.

7.1 Constraints on Water Sources

Constraints on SCWA's surface water supplies includes the significant variation of supplies that are available depending on the climate year type as described in Section 6. Even though the surface water supplies are not available at a consistent level of use, SCWA has available groundwater supplies to be able to replace the reduction in surface water supplies in dry years. While groundwater is more consistently available over different climate year types, it has been constrained by groundwater contamination plumes, some naturally occurring contaminants, and the long term need to not exceed the safe yield. The capacity of supply and conveyance facilities is also a constraint on both surface water and groundwater supplies. SCWA has plans to construct additional water supply facilities as presented in Table 6-9. In general, water quality does not have a significant impact on SCWA's current and projected water supplies. The Vineyard SWTP and groundwater treatment plants provide treatment meet to drinking water standards.

7.2 Reliability by Type of Year

The basis of water year data for determining surface water supply reliability is provided in Table 7-1. The water supply allocation from the CVP supply in 2015 was a historical low. The CVP allocation for the three year 2013 to 2015 period was also the lowest historical three year sequence. As can be seen in Table 7-2, the CVP allocation for 2013 to 2015, was 100 percent, 75 percent, and 25 percent of the prior three year average constrained use for each of the years respectively. The CVP supply represents SCWA's most significant surface water supply source. Even with the low CVP allocation in 2015, as shown in Table 7-1 the overall water supply was still 90 percent of normal because of the availability of other water supply sources. Table 7-2 shows the breakdown of the estimated availability of each supply source for 2013 to 2015. Table 7-3 shows the basis of the wholesale water supply reliability. As stated earlier, it is assumed that wholesale water supplies would be fully available as required to meet wholesale water demands.

Table 7-1. (DWR Table 7-1) Retail: Basis of Water Year Data							
		Available supplies if year type repeats					
Year type	Base year	Quantification of available s this table and is provided el Location	supplies is not compatible with sewhere in the UWMP.				
		✓ Quantification of available supplies is provided in this tab as either volume only, percent only, or both.					
		Volume available	% of avg supply				
Average year	2013		100%				
Single-dry year	2015		90%				
Multiple-dry years 1st year	2013		100%				
Multiple-dry years 2nd year	2014		84%				
Multiple-dry years 3rd year	2015		73%				

Notes: Percent of average supply based on amount used as determined in Table 7-2. These percentages of average supply will change in the future as the dry year allocation amount of CVP water increases as the normal year use of CVP water increases.

Table 7-2. Calculation of Percent of Average Supply, ac-ft/yr							
Water supply	2013	2014	2015				
Purchased water, surface water, and remediated groundwater	13,969	7,933	6,416				
Groundwater	28,828	27,781	24,652				
Recycled water and raw water	831	779	745				
Total	43,628	36,493	31,813				
Normal year	43,628	43,628	43,628				
Supply as % of normal year	100%	84%	73%				

Notes: In 2014 and 2015, demand was reduced due to the drought and the required reduction in demands.

Table 7-3. (DWR Table 7-1 W) Wholesale: Basis of Water Year Data							
		Available supplies if year type repeats					
Year type	Base year	Quantification of available supplies is not compatible with this a and is provided elsewhere in the UWMP. Location					
		Quantification of available supplies is provided in this table as either volume only, percent only, or both.					
		Volume available	% of avg supply				
Average year	2013		100%				
Single-dry year	2015		100%				
Multiple-dry years 1st year	2013		100%				
Multiple-dry years 2nd year	2014		100%				
Multiple-dry years 3rd year	2015		100%				

Notes: Supply was provided to retail agencies to meet their demands. In 2014 and 2015 demand was reduced due to the drought and the required reduction in demands.

7.3 Supply and Demand Assessment

This section provides a comparison of normal, single-dry, and multiple dry water year supply and demand for SCWA. Table 7-4 presents the normal year supply to demand comparison for the retail water system, and Table 7-5 presents the comparison for the wholesale water system. The projected supplies are based on the approximate amount that can be delivered with the capacity constraints of the water supply infrastructure that is planned to exist at that time.

Table 7-4. (DWR Table 7-2 R) Retail: Normal Year Supply and Demand Comparison, ac-ft/yr								
<u>2020</u> 2025 2030 2035 2040								
Supply totals	82,900	82,900	87,900	97,900	97,900			
Demand totals	48,121	55,489	63,288	71,145	79,278			
Difference	34,779	27,411	24,612	26,755	18,622			

Table 7-5. (DWR Table 7-2 W) Wholesale: Normal Year Supply and Demand Comparison, ac-ft/yr									
	2020 2025 2030 2035 2040								
Supply totals	5,000	5,800	6,000	7,000	7,000				
Demand totals	4,120	4,826	5,733	6,233	6,769				
Difference	880	174	267	767	231				

The projected water supplies are compared to the demands for a single dry year for the SCWA retail systems in Table 7-6. Table 7-7 presents the single dry year comparison for the wholesale supplies and demands.

The dry year demands are assumed to be the same as the normal year demands in Table 7-6. In actuality, demands in dry years can be a few percentage points higher due to the hotter and drier climate in dry years that leads to higher outdoor water use. On the other hand, during 2015 the State Water Resources Control Board mandated demand reductions that amounted to 32 percent for SCWA. It is possible that future years that are the same water supply conditions as 2015 may have similar demand reductions.

Table 7-6. (DWR Table 7-3 R) Retail: Single Dry Year Supply and Demand Comparison, ac-ft/yr								
	2020	2025	2030	2035	2040			
Supply totals	70,200	70,500	74,600	83,600	83,800			
Demand totals	48,121	55,489	63,288	71,145	79,278			
Difference	22,079	15,011	11,312	12,455	4,522			

Notes: See Table 7-10 for a break down of the supplies by source.

Table 7-7. (DWR Table 7-3 W) Wholesale: Single Dry Year Supply and Demand Comparison, ac-ft/yr								
	2020	2025	2030	2035	2040			
Supply totals	5,000	5,000	6,000	7,000	7,000			
Demand totals	4,120	4,826	5,733	6,233	6,769			
Difference	880	174	267	767	231			
Jotaci Sao Table 7.10 far a brack down of the supplies by source								

The projected water supplies are compared to the demands for a multiple dry year for the SCWA retail systems in Table 7-8. Table 7-9 presents the multiple dry year comparison for the wholesale supplies and demands. The multiple dry year scenario mimics the water supply conditions of 2013 to 2015 when CVP allocations were 100 percent, 75 percent, and 25 percent of the average use of supplies during the previous three years. The demands presented in Tables 7-8 and 7-9 are the same as the normal year demands, but as discussed for the single dry year scenario, the second and third year demands might be lower if demand reduction mandates are imposed by the State of California.

Table 7-8. (DWR Table 7-4 R) Retail: Multiple Dry Years Supply and Demand Comparison, ac-ft/yr								
		2020	2025	2030	2035	2040		
First year	Supply totals	82,900	82,900	87,900	97,900	97,900		
	Demand totals	48,121	55,489	63,288	71,145	79,278		
	Difference	35,779	27,411	24,612	26,755	18,622		
	Supply totals	77,900	77,900	81,900	90,900	90,900		
Second year	Demand totals	48,121	55,489	63,288	71,145	79,278		
	Difference	29,779	22,410	18,612	19,757	11,622		
Third year	Supply totals	70,200	70,500	74,600	83,600	83,800		
	Demand totals	48,121	55,489	63,288	71,145	79,278		
	Difference	22,079	15,011	11,312	12,455	4,522		

Notes: Based of the selected base years in Table 7-3, the first year is normal year supplies, the second year is based on a 75% allocation of CVP water, and the third year is the same as the single dry year with a 25% CVP allocation. Table 7-11 presents the second year supplies by source. Table 7-10 presents the third year supplies by source. First year supply values corrected from public draft to reflect normal year assumption.

Table 7-9	Table 7-9. (DWR Table 7-4 W) Wholesale: Multiple Dry Years Supply and Demand Comparison, ac-ft/yr							
		2020	2025	2030	2035	2040		
First year	Supply totals	5,000	5,000	6,000	7,000	7,000		
	Demand totals	4,120	4,826	5,733	6,233	6,769		
	Difference	880	174	267	767	231		
	Supply totals	5,000	5,000	6,000	7,000	7,000		
Second year	Demand totals	4,120	4,826	5,733	6,233	6,769		
	Difference	880	174	267	767	231		
Third year	Supply totals	5,000	5,000	6,000	7,000	7,000		
	Demand totals	4,120	4,826	5,733	6,233	6,769		
	Difference	880	174	267	767	231		

Determining the amount of CVP supplies available in the dry years requires first a projection of the use of the CVP supply in normal years. The CVP dry year allocation is determined based on a percentage of the previous three years of use. The projected availability of single dry year supplies is presented in Table 7-10 with facility capacity constraints. During dry years SCWA would seek to supplement its reduced CVP supplies with the use of other surface water supplies. Table 7-11 presents the projected availability of supplies for the second year of a multiple dry year with facility capacity constraints. Tables 7-10 through 7-11 are for the combined total of water supplies for SCWA's retail service area and wholesale customers.

Table 7-10. Projected Available Single Dry Year Water Supplies with Facility Constraints, ac-ft/yr					
Water Supply	2020	2025	2030	2035	2040
Surface water, all types					
Purchased water					
CVP (a)	8,000	8,300	8,400	8,400	8,600
City of Sacramento					
Surface water (appropriative)	-	-	-	-	-
Transfers (other surface water supplies)	9,600	9,600	9,600	9,600	9,600
Other (remediated groundwater)	8,900	8,900	8,900	8,900	8,900
Subtotal	26,500	26,800	26,900	26,900	27,100
Groundwater for Zone 40	41,000	41,000	46,000	56,000	56,000
Groundwater for non Zone 40 systems	6,000	6,000	6,000	6,000	6,000
Recycled water	1,700	1,700	1,700	1,700	1,700
Total	75,200	75,500	80,600	90,600	90,800
Wholesale supply to retailers	5,000	5,000	6,000	7,000	7,000
Retail supply w/ recycled water	70,200	70,500	74,600	83,600	83,800

Notes: This table is also applicable for the third year of the multiple dry year scenario.

^(a) Assumes normal year use of CVP water is maximized.

Table 7-11. Projected Available Multiple Dry Years Water Supplies for Second Year with Facility Constraints, ac-ft/yr					
Water Supply	2020	2025	2030	2035	2040
Surface water, all types					
Purchased water					
CVP	24,000	24,900	25,050	25,125	25,650
City of Sacramento					
Surface water (appropriative)	-	-	-	-	-
Transfers (other surface water supplies)	1,300	400	250	175	
Other (remediated groundwater)	8,900	8,900	8,900	8,900	8,550
Subtotal	34,200	34,200	34,200	34,200	34,200
Groundwater for Zone 40	41,000	41,000	46,000	56,000	56,000
Groundwater for non Zone 40 systems	6,000	6,000	6,000	6,000	6,000
Recycled water	1,700	1,700	1,700	1,700	1,700
Total	82,900	82,900	87,900	97,900	97,900
Wholesale supply to retailers	5,000	5,000	6,000	7,000	7,000
Retail supply w/ recycled water	77,900	77,900	81,900	90,900	90,900
Notes: See Table 6-12 for the first year and Table	~ 7.10 for the this	rd vear for a break	down of supplies fo	or the multiple dry	vear scenario

Notes: See Table 6-12 for the first year and Table 7-10 for the third year for a breakdown of supplies for the multiple dry year scenario.

7.4 Regional Supply Reliability

SCWA relies fully on local water supplies with no use of imported water. Water programs that SCWA utilizes to maximize regional supply reliability are described as follows.

- RWA SCWA is member of RWA and participates in RWA's American River Integrated Regional Water Management Plan (IRWMP) as well as RWA's water efficiency program. The IRWMP identifies specific projects and implementation programs and agreements between different affected agencies to identify projects to put conjunctive use in place. An intended purpose of this IRWMP is to provide and encourage regional opportunities for water resources planning and project development.
- Water Forum Successor Effort SCWA is a member of the Water Forum Successor Effort and is a signatory to the Water Forum Agreement. The Water Forum process brought together a diverse group of stakeholders that included water managers, business and agricultural leaders, environmentalists, citizen groups, and local governments to evaluate available water resources and the future needs of the Sacramento metropolitan region. The coequal objectives of the Water Forum Agreement are to: 1) provide a reliable and safe water supply for the region's economic health and planned development through the year 2030; and 2) preserve the fishery, wildlife, recreational, and aesthetic values of the lower American River. The Water Forum Agreement contains seven major elements to meet its objectives including purveyor specific agreements.
- SGA SCWA, through the County of Sacramento, is a Board member of the SGA. SGA has adopted a regional groundwater management plan.
- SCGA SCWA, through the County of Sacramento, is a Board member of the SCGA. SCGA has adopted a regional groundwater management plan for the Central Basin.

Through active participation in the above referenced programs, SCWA has access to and participates in the development of various water management tools that provide opportunities for regional cooperation and resource optimization.

Section 8

Water Shortage Contingency Planning

This section describes SCWA's planning for responding to water shortages including stages of action, prohibitions, penalties, consumption reduction methods, mechanisms for determining actual reductions in use, revenue and expenditure impacts, a shortage contingency resolution, plans for catastrophic events, and the estimated multiple dry-year minimum water supply.

In its role as a water wholesaler, SCWA does not have the ability to impose use restrictions or other requirements directly on end users of water in the event of a shortage; such actions must be taken by the SCWA's retail water agencies.

8.1 Stages of Action

Table 8-1 presents SCWA's stages of action. SCWA updated its stages of action in a Water Shortage Contingency Plan document in 2014, as presented in Appendix I.

Table 8-1 (DWR Table 8-1 R&W). Retail : Stages of WSCP				
Stade	Complete both			
Juge	Percent supply reduction	Water supply condition		
Normal	0	Normal		
1	10%	Water alert - probability that supplies will not be able to meet all demands		
2	25%	Water warning - supplies not meeting current demands		
3	50%	Water crisis - major failure of a supply, storage, or distribution system, supplies not meeting current demands		
4	Greater than 50%	Water emergency - major failure of a supply, storage, or distribution system, supplies not meeting current demands		

8.2 Prohibitions on End Uses

Prohibitions on end uses are presented in Table 8-2. The prohibitions in Table 8-2 are based on the prohibitions for each stage that are presented in the 2014 Water Shortage Contingency Plan document presented in Appendix I.

Table 8-2 (DWR Table 8-2 R). Retail Only: Restrictions and Prohibitions on End Uses					
Stage	Restrictions and prohibitions to end users	Additional explanation or reference	Penalty, charge, or other enforcement? Y/N		
	Landscape irrigation				
Normal	Restrict or prohibit runoff from landscape irrigation		Y		
Normal to 3	Limit landscape irrigation to specific days per week and times	Varies from 3 days per week to 1 day per week.	Y		
4	Prohibit all landscape irrigation		Y		
	СІІ				
Normal	Restaurants may only serve water only upon request		Y		
	Water features and swimming pools				
2	Water use for decorative water features, such as fountains, is prohibited		Y		
3	Prohibit filling of residential swimming pools		Y		
Normal	Require recirculating water pumps for pools, ponds, and fountains.		Y		
	Other				
Normal	Customers must repair leaks, breaks, and malfunctions in a timely manner		Y		
Normal	Require automatic shut off hoses		Y		
Normal	Prohibit use of potable water for washing hard surfaces		Y		
3	Prohibit residential car washing and charity car wash events		Y		
4	New connection moratorium		Y		
2	Use of potable water for construction		Y		

In May 2015, the State Water Resources Control Board adopted an emergency conservation regulation in response to four Executive orders issued by Governor Brown to address California's severe drought condition. The emergency conservation regulation prohibited the following water uses:

• Using potable water to irrigate ornamental turf on public street medians

- Using potable water to irrigate landscapes of new homes & buildings inconsistent with California Building Standards and Code (CBSC) and Department of Housing and Community Development (DHCD) requirements
- Using outdoor irrigation during and 48 hours following measurable precipitation
- Using potable water in decorative water features that do not recirculate the water
- Using hoses with no shutoff nozzles to wash cars
- Runoff when irrigating with potable water
- Using potable water to wash sidewalks & driveways

Requirements for water suppliers include:

- Notify customers about leaks that are within the customer's control
- Report on water use, compliance & enforcement

Requirements for businesses (commercial users) include:

- Hotels & motels must provide guests with the option of not having towels & linens laundered daily
- Restaurants & other food service establishments can only serve water to customers on request

8.3 Penalties, Charges, and Other Enforcement of Prohibitions

SCWA utilizes several approaches to enforce water use prohibitions including notices of violation, fines, and termination of service. Section 3.50.105 of the Water Agency Code describes a fine for unauthorized actions.

8.4 Consumption Reduction Methods

Consumption reduction methods are actions that SCWA can take to reduce its water consumption. Table 8-3 presents these methods.

Table 8-3 (DWR Table 8-3 R). Retail Only: Stages of WSCP - Consumption Reduction Methods				
Stage	Consumption reduction methods by water supplier	Additional explanation or reference		
1	Expand public information campaign			
2	Increase frequency of customer billing and meter reading			
1	Offer water use surveys			
3	Provide rebates for plumbing fixtures and devices			
1	Provide rebates for landscape irrigation efficiency			
3	Provide rebates for turf replacement			
2	Decrease line flushing			
2	Reduce system water loss			
2	Increase water waste patrols			
4	Moratorium or net zero demand increase on new connections			
4	Implement or modify drought rate structure or surcharge			
4	Other – Reduce pressure in water lines			
2	Other – Flow restriction			

Table 8-3 (DWR Table 8-3 R). Retail Only: Stages of WSCP - Consumption Reduction Methods				
Stage	Consumption reduction methods by water supplier	Additional explanation or reference		
2	Other - Restrict use of potable water for construction			
4	Other – Per capita water allotment by customer type			
1	Other – Voluntary rationing			
4	Other – Mandatory rationing			
4	Other-Water shortage pricing			

8.5 Determining Water Shortage Reductions

To determine reductions in demand, SCWA can monitor the individual water use of its metered customers. SCWA bills its customer's bi-monthly. These bills show the amount of water used by the customer during the previous billing period as well as previous month's usage. These billing reports can be generated more frequently to verify if a customer has reduced their water usage during a water shortage period or after the customer has received a "Water Shortage Advisory."

Currently, about ninety percent of SCWA's customers are metered and SCWA is seeking opportunities to install meters on all existing services. All new connections are required to have meters. Upon completion of this program, SCWA will have the ability to fully monitor their customers' water use.

To determine reductions in production, SCWA maintains records of how much groundwater produced at each groundwater well and how much surface water is being supplied. This production data is typically summarized monthly, but can be generated more frequently if there is a water shortage and there is a need to target specific areas for conservation.

The following Table 8-4 summarizes SCWA's procedure for monitoring its various water shortage actions for effectiveness.

Table 8-4. Reduction Measuring Mechanisms				
Mechanism for determining actual reduction				
Use normalized or average water use baseline to determine reductions				
More frequent review of production				
More frequent meter reading at customer location				
More frequent leak detection and repair				
More frequent meter checking and repair				
System audit				
Automated sensors and telemetry				
Monitor utility actions				

8.6 Revenue and Expenditure Impacts

Approximately ninety percent of the connections within SCWA's service areas are metered. Therefore, if there were a water supply shortage or a catastrophe that would significantly reduce water demand, either voluntarily or involuntarily, SCWA would see a loss in revenue. Costs would also decrease, but at a slower rate than revenues because SCWA continues to incur fixed costs during a water shortage. To address revenue reductions during a water shortage, SCWA would consider utilizing a portion of the Rate Stabilization Fund, delaying capital projects, and seeking funding assistance from the state or federal government through loans and/or grants. SCWA will consider adopting a drought surcharge in its rate structure the next time water rates are updated.

8.7 Resolution or Ordinance

According the Section 350 of the Water Code, the SCWA Board of Directors must declare a water shortage emergency if there is insufficient water for human consumption, sanitation, and fire protection. The emergency declaration would prompt SCWA to implement its Water Shortage Contingency Plan. Appendix I presents the water shortage contingency resolution.

8.8 Catastrophic Supply Interruption Plan

SCWA has various procedures and contingencies prepared in order to be able to continue to deliver water to its customers after a catastrophe. These include water storage capacity, backup power generators at every pump station and treatment plant, the ability to accommodate portable electric generators, use of backup/standby facilities, and utilization of interties with adjacent water purveyors. SCWA would also dedicate all necessary maintenance staff to repair and isolate major distribution system failures. SCWA would also notify the public regarding water supply shortages through mailers, newspaper notices, and television and radio announcements.

SCWA and the County have planned for the possibility of a catastrophe. The following is a summary of some of the plans that have been developed:

Sacramento County Multi-Jurisdictional Local Hazard Mitigation Plan

The Multi-Jurisdictional Local Hazard Mitigation Plan (LHMP) was prepared in accordance with the requirements of the Disaster Mitigation Act of 2000 (PL 106-3900). The LHMP functions as the Community Rating System (CRS) Floodplain Management Plan for the County. The LHMP identifies and assesses the risks from potential natural hazards in Sacramento County, reviews the County's current capabilities to reduce the impacts from hazards, and includes recommended actions to reduce vulnerability to potential disasters. The natural hazards identified and investigated in the LHMP include severe weather, flood, dam and levee failure, earthquakes, wildfires, and drought (Sacramento County).

Sacramento County Multi-Hazard Disaster Plan

This existing plan was developed pursuant to the Disaster Mitigation Act of 2000 regulations published in the Federal Register, Volume 67, Number 38, Tuesday, February 26, 2002 (Sacramento County, 2004). This plan identifies goals, objectives, and measures for hazard mitigation and risk reduction to make communities less vulnerable and more disaster resistant and sustainable. Information in the plan can also be used to help guide and coordinate mitigation activities and local policy decisions for future land use decisions.

Dam Emergency Preparedness Plans

The County has copies of the emergency plans and inundation maps for Folsom Dam that were prepared by the Reclamation.

County Sandbag Locations

The County has an inventory of sandbag stockpiles and a map showing where these resources are located. These sites are posted on the web at *www.floodready.org*. Sandbag locations are stocked and opened when there is a recognized threat of impending high intensity storms.

Sacramento County Flood ALERT System

Automated Local Evaluation in Real Time (ALERT), developed by the National Weather Service (NWS), signals the County Department of Water Resources of possible flooding. It provides continuous and automatic reports from river levels and rainfall gauges. These monitoring stations provide data to determine when to initiate evacuation procedures.

Sacramento County Website

Emergency information can be found on the County's website at (*www.saccodwr.org* or *www.floodready.org*). Also included are links to several agencies serving the County to contact if an emergency condition occurs.

8.9 Minimum Supply Next Three Years

The estimated three-year minimum water supply is presented in Tables 8-5 and 8-6 assuming the historical multiple dry year hydrology of 2013 to 2015.

2018
70,200

Note: First year supply values corrected from public draft to reflect normal year assumption.

Table 8-6. (DWR Table 8-4 W). Wholesale: Minimum Supply Next Three Years, ac-ft/yr				
	2016	2017	2018	
Available water supply	5,000	5,000	5,000	

Section 9

Demand Management Measures

SCWA is a member of the California Urban Water Conservation Council (CUWCC) and has submitted its 2013-2014 best management practices (BMP) annual reports, as presented in Appendix F. This section briefly describes the progress in implementing several specific measures that can be optionally described in the Plan in addition to providing the BMP reports.

9.1 Demand Management Measures Common for Retail and Wholesale Water Agencies

This section describes demand management measures (DMMs) that are implemented by SCWA for both its retail and wholesale customers.

9.1.1 Water Waste Prevention Ordinances

Water waste is prohibited by ordinance SCWA Code Title 3 Section 3.40.120. Section 3.40 of Title 3 of the SCWA Code is provided in Appendix H. Water waste can be reported online on SCWA's website or by calling either SCWA or our 875-RAIN hotline. The conservation staff responds to complaints by conducting a site visit and making contact with the consumer typically in the form of a door hanger letter.

9.1.2 Metering

The SCWA water system currently has meters installed on most of the connections. The wholesale interconnections that supply Elk Grove Water District are not currently metered due to the large number of interconnections and the high cost of metering all of these interconnections. SCWA is investigating how to most efficiently meter all wholesale/retail agency interconnections.

9.1.3 Conservation Pricing

SCWA implements conservation pricing in accordance with the CUWCC Memorandum of Understanding.

9.1.4 Public Education and Outreach

In addition to local public education and outreach programs, SCWA also participates in a regional public education and outreach program through the RWA. The RWA is a joint powers authority formed in 2001 to promote collaboration on water management and water supply reliability programs in the greater Sacramento, Placer, El Dorado, Yolo, and Sutter counties. In collaboration with 22 water provider members and other wastewater, stormwater and energy partners, RWA formed the Water Efficiency Program (WEP) in 2001 to bring cost effectiveness through economies of scale to public education and outreach activities. The remainder of this subsection describes the regional program.

The WEP operates on an average annual budget of \$411,000 and is supplemented by grant funding. In response to the 2015 drought, the WEP collected an additional \$150,000 in funding from participating water providers for additional media and advertising buys to help meet the SWRCB's mandatory conservation targets. Grant funding is an important funding resource for the WEP. Since 2003, the WEP has been awarded \$9.1 million in grant funding for public outreach and education as well as rebate, direct install, water loss, individualized customer usage reports, large landscape budgets and more.

The main function of the WEP is to develop and distribute public outreach messages for customers in the region by collaborating with its water provider members on their outreach activities. The WEP distributes these messages on a regional scale through regional media and advertising buys. From 2010-2015, the WEP created a series of public outreach campaigns. Below is a summary of each campaign and highlighted achievements.

The Blue Thumb campaign ran from 2010-2012 and was focused on reducing outdoor water use. While most people have heard of a "Green Thumb," which describes someone with a skill for gardening, the campaign showcased people who earned their "Blue Thumb" by making a personal commitment to using water wisely outdoors. The iconic blue thumb gardening gloves were given away at public events and were worn by local celebrities like Sacramento's Mayor Johnson during promotional activities.

The Do the Sprinkler campaign launched in 2013 and featured the vintage sprinkler dance from the 1970's as the celebration residents would do after saving water outdoors. This campaign focused on finding and fixing problems with your sprinkler system to make sure it was running efficiently. The WEP created a public service announcement, mash-up videos and a series of "how to" videos to show residents how to fix their sprinkler systems.

The How Low Can You Go campaign launched in 2014 and asked residents how low they could get their water use down. The campaign focused on providing three water savings tips, each with increasing water savings and then one tip that went "too far" such as having Rover the dog do the dishes. Campaign posters were mounted in all the bathroom stalls at Raley Field.

The Water Myths Busted! campaign was launched in 2015 to challenge residents to decide what water conservation tips were fact or myth. The main message behind this campaign was to communicate that most of a household's water use is used outdoors. Also in 2015, the WEP partnered with Save Our Water to collaborate on campaign messages and advertising buys.

These campaigns are implemented through both paid advertising buys and earned media from public service announcements. Every year the campaigns can be heard on local radio stations such as Capital Public Radio and online (since 2013) through google, Facebook and YouTube advertisements. Television advertising was also used when funding was available. For example, in 2015, the WEP partnered with News10 to deliver water conservation messages during the weather forecast. From 2010-2015, the WEP public outreach campaigns generated more than 134 million impressions through advertising and public service announcement activities, 617,000 impressions through video views and 82,000 impressions through online clicks. Impressions represent the number of times an advertisement is served, seen or heard.

The WEP also continues messaging through its own Facebook page. From 2012-2015, the WEP has made 350 Facebook posts about water saving tips and other relevant information. In 2014 and 2015, the WEP hosted several sweepstakes contests including Drought Face, where participates had to proudly submit pictures of their fully bearded face in an effort to save water. The winners of the Drought Face sweepstakes had their photo displayed on a prominent billboard near downtown Sacramento that created 773,000 impressions. The other contest was called Naughty or Nice?, where participates took a holiday theme water conservation quiz to determine if they were naughty or nice in terms of saving water.

In 2014, the WEP's website <u>bewatersmart.info</u> was redesigned to simplify use for visitors. The website contains regional and local water provider information on rebates and services, top ways to save, drought information including an interactive drought map, watering day times and restrictions, a water-wise gardening database, recent press releases, the Sacramento Smart Irrigation Scheduler tool, information about RWA's Carwash Program and more. In 2015, the website received 80,000 unique visitors.

Twice a year the WEP distributes an e-newsletter to residents. The e-newsletters are filled with water savings tips, upcoming events and other interesting articles. They are usually timed around changes in the weather
to help signal the need for residents to adjust their irrigation systems, such as day light savings coupled with a message to dial back sprinkler systems.

Every year the WEP selects three to five public events to attend and to have a booth for the public to interact with local water conservation staff. This provides an opportunity for the region to communicate its messages. Events have included the Sacramento Home & Garden Show, Creek Week, Harvest Day, Farm-to-Fork Festival and several Earth Day events. From 2010-2015, all the public events that WEP participated in had an estimated attendance of 362,383 people, which represents about 20 percent of the region's total population.

The WEP is also very active in communicating to local media outlets such as the Sacramento Bee. RWA regularly issues press releases on WEP activities and regionally significant news. From 2010-2015, the RWA and the WEP were mentioned in 569 news articles published by local and regional media outlets both within and outside of the Sacramento region. From 2010-2014, the WEP averaged about 38 media stories per year. However, media coverage dramatically increased in response to the drought in 2014 and 2015 generating about 200 media stories in the last two years.

In addition to public outreach, the WEP also coordinates public education activities in partnership with the Sacramento Bee's Media in Education (MIE) program. Since 2012, the WEP has hosted the Water Spots contest. The contest is for high school and middle school students. The WEP provides a new theme each year and provides the region's teacher and students with relevant facts and images to help with the development of 30 second PSAs. Students submit their videos to a judging panel of local celebrities who decide on a first, second and third place winner. The top 10 videos are posted online for voting through the MIE program to select a "people's choice" winner as well. Both teachers and student receive cash prizes. The winning PSAs are incorporated into the WEP's media activities as well. Past themes include *BET THE LEAK: Find and Fix Leaks Fast*! and *BE A DROUGHT CHAMP: Conserve Water*! Between 2012 and 2015, 352 videos were submitted.

Also in partnership with MIE, the WEP started a new effort in 2015, the Be Water Smart Poster Contest. A theme was chosen focusing on Fix a Leak Week in March and a poster featuring the region's mascot, Les Leaky, fixing leaks on one side and a water conservation infographic on the other side. This double sided poster was included in the Sacramento Bee's paper on March 15, 2015 and distributed to all zip codes within RWA's members' service areas. The contest received 450 entries and the top five winners posters were posted online and received gift cards.

9.1.5 Programs to Assess and Manage Distribution System Real Loss

SCWA's water loss control program consists of annual water audits and an ongoing leak detection and repair within the system focused on the high probability leak areas. This includes an ongoing meter calibration and replacement program for all production and distribution meters.

SCWA's activities include:

- Standard water audit and water balance annually.
- Validation: Staff has collected data on well production meters (90 percent complete) and test for accuracy. SCWA is making the necessary improvements to increase data accuracy in a phased approach based on feasibility, cost, reduction in overall error and other relevant factors.
- Interventions: Operations locates and repairs leaks when they are discovered and proactively looks for leaks when time allows and in the vicinity of daily work.
- Customer leaks: A consulting water auditor assists customers in locating leaks both inside and outside the home or business.

9.1.6 Water Conservation Program Coordination and Staffing Support

A conservation coordinator is a key component for implementing SCWA's water conservation program. The conservation coordinator is responsible for implementing and monitoring the SCWA's water conservation activities. This is a full time position. Additional staff members that contribute to the conservation program are Engineering Technicians.

9.1.7 Other Demand Management Measures

SCWA implements other DMMs that are documented in the CUWCC reports in Appendix F.

9.2 Additional Demand Management Measures Specific for Wholesale Water Agencies

This section describes additional DMMs that are implemented by SCWA for its wholesale customers.

9.2.1 Asset Management

Wholesale water agencies are required to describe their distribution system asset management program in the Plan. Asset management is typically considered to include asset information, level of service and performance measures, risk management, condition assessment, maintenance management, and asset needs.

SCWA's water system assets consist of pipelines, groundwater wells, pump stations, storage facilities, the surface water treatment plant, and groundwater treatment plants. SCWA places a high priority on properly maintaining the water system asset to keep it as reliable as possible.

SCWA has a comprehensive inventory of all of its infrastructure assets that is maintained on a database that can be accessed using GIS mapping tools. SCWA actively assesses the condition of the water system. SCWA uses a computerized maintenance management system to help manage the ongoing maintenance of the water system. Asset needs are identified and included in the capital improvement plan that is updated annually.

9.2.2 Wholesaler Supplier Assistance Program

SCWA and its retail agencies are members of the RWA and SGA. The membership organization partners on mutually beneficial programs. SCWA's participation and financial contributions to these programs benefit the agencies to which the SCWA provides wholesale water.

9.3 Planned Implementation to Achieve Water Use Targets

SCWA will have to meet its 2020 per capita demand target. As described in Section 5, SCWA has met its 2015 interim target and is on track to meet the 2020 target. A combination of the installation of low flow plumbing devices, replacement of older plumbing fixtures, reduction of distribution system and customer leaks, conversion to metered rates, implementation of outdoor landscaping measures, and price elasticity impacts will maintain or reduce per capita demands. The priority will be focused on measures that reduce long term maximum day and peak hour demands that would benefit cost-effective infrastructure planning efforts. Focusing SCWA's water conservation program on reducing peak demands would provide the best benefits by reducing summer water supply capacity needs and the use of higher cost peak period energy. A continuation of SCWA's present conservation measures, programs, and policies will help SCWA to reduce current per capita water use.

Section 10

Plan Adoption, Submittal, and Implementation

SCWA notified cities and counties within the service area more than 60 days before the public hearing was held as presented in Tables 10-1 and 10-2. A Notice of Public Hearing was published twice in the Sacramento Bee more than 14 days prior to the hearing to notify all customers and local governments of the public hearing, and copies of the draft Plan were made available for public inspection at SCWA's administration building and on-line. Appendix A provides documentation of the 60 days notification to cities and counties. Appendix B documents the notice of public hearing.

The public hearing on May 24, 2016 provided an opportunity for SCWA's customers to learn and ask questions about their water supply and SCWA's plans for providing a reliable water supply. This Plan was adopted by SCWA's elected body on May 24, 2016. A copy of the adoption resolution is provided in Appendix C.

The adopted Plan was provided to DWR, the State library, and the appropriate cities and counties within 30 days of adoption. The Plan was also submitted electronically to DWR. The adopted Plan is available for public review during normal business hours at the SCWA administration building and on-line at www.msa2.saccounty.net/dwr/scwa. Supporting documentation is presented in Appendix C.

Table 10-1. (DWR Table 10-1 R) Retail: Notification toCities and Counties						
City name	60 day notice	Notice of public hearing				
City of Elk Grove	✓	\checkmark				
City of Rancho Cordova	✓	\checkmark				
City of Sacramento	\checkmark	\checkmark				
County name	60 day notice	Notice of public hearing				
Sacramento	✓	\checkmark				

Table 10-2. (DWR Table 10-2 W) Wholesale: Notification to Cities and Counties									
	Supplier has notified more than 10 cities or counties in accordance with CWC 10621 (b) and 10642. Include a separate list of the cities and counties that were notified. 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								
City of Elk Grove	~	✓							
City of Rancho Cordova	\checkmark	✓ ✓							
City of Sacramento	~	\checkmark							

County name 60 day notice		Notice of public hearing			
Sacramento	✓	✓			

Section 11 References

City of Elk Grove Housing Element. March 2015.

- Department of Water Resources. Bulletin 118-3. Evaluation of Ground Water Resources: Sacramento County. 1974.
- Department of Water Resources. California's Groundwater Bulletin 118, Sacramento Valley Groundwater Basin, North American Subbasin. January 20, 2006.
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- Department of Water Resources. Methodology for Calculating Baseline and Compliance Urban Per Capita Water Use. October 1, 2010.
- Department of Water Resources. Final Guidebook to Assist Urban Water Suppliers to Prepare a 2015 Urban Water Management Plan. March 2016.
- Regional Water Authority. American River Basin Integrated Regional Water Management Plan. July 2013.
- Sacramento Area Council of Government. Housing Element Data Profiles. December 2012.
- Sacramento County. Housing Element of the Sacramento County General Plan. October 2013.
- Sacramento County. Sacramento County Multi-Jurisdictional Local Hazard Mitigation Plan.
- Sacramento County . Sacramento County Multi-Hazard Disaster Plan. Dec 2004.
- Sacramento County Water Agency. Water Shortage Contingency Plan. Revised January 2014.
- Sacramento County Water Agency. Water Code. Title 3 Wholesale and Retail Water Services. Updated July 2015.
- Sacramento County Water Agency. Zone 40 Water System Infrastructure Plan Update. March 2016.
- Sacramento Groundwater Authority. Water Accounting Framework Phase III. June 10, 2010.
- Sacramento Regional County Sanitation District. Water Recycling Opportunities Study. February 2007.
- US Department of the Interior, Bureau of Reclamation. Central Valley Project Municipal and Industrial Water Shortage Policy Scoping Report. July 2011.
- US Department of the Interior, Bureau of Reclamation. Sacramento and San Joaquin Rivers Basin Study Basin Study Report and Executive Summary, March 2016.



Appendix A: Documentation of City/County Notification and Water Supplier Coordination

From:Paul SelskySent:Friday, March 25, 2016 3:11 PMTo:'cabhar@cityofranchocordova.org'Cc:ZuccaroD@SacCounty.NETSubject:Notification of Urban Water Management Plan Update

To: Mr. Cyrus Abhar City Manager City of Rancho Cordova

Dear Mr. Abhar:

This email is being sent on behalf of Sacramento County Water Agency (Water Agency) to notify you that the Water Agency is updating its Urban Water Management Plan (Plan) and will hold a public hearing to discuss these efforts. The California Water Code (CWC) 10621 (b) requires that agencies notify cities and counties to which they serve water that the Plan is being updated and reviewed. The CWC specifies that this must be done at least 60 days prior to the public hearing. The public hearing will take place at the Sacramento County Board of Supervisors Chambers, located at 700 H Street, Suite 1450, Sacramento, CA 95814. The exact date and time of the public hearing will be announced online at http://www.saccounty.net.

The Water Agency's Urban Water Management Plan will discuss and describe the following:

- Existing water supplies;
- Projected water demands in the Water Agency's service area over the next 25 years;
- Projected water supplies available to the Water Agency over the next 25 years, the reliability of that supply, and general schedules for water supply projects;
- Water Agency water conservation activities;
- And a comparison of water supply and water demand over the next 25 years under different hydrological assumptions (normal year, single dry year, multiple dry years).

Please share this notification with anyone in your organization that might be interested. If you have any questions or comments regarding the Urban Water Management, please contact Mr. Dave Zuccaro at 916-875-6917 or at ZuccaroD@SacCounty.NET.

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA PSelsky@brwncald.com T 916.853.5306 | C 916.612.9832 *Licensed in California



From:	Paul Selsky
Sent:	Friday, March 25, 2016 3:11 PM
То:	'underwoodd@SacCounty.NET'
Cc:	ZuccaroD@SacCounty.NET
Subject:	Notification of Urban Water Management Plan Update

To: Mr. David Underwood County of Sacramento

Dear Mr. Underwood,

This email is being sent on behalf of Sacramento County Water Agency (Water Agency) to notify you that the Water Agency is updating its Urban Water Management Plan (Plan) and will hold a public hearing to discuss these efforts. The California Water Code (CWC) 10621 (b) requires that agencies notify cities and counties to which they serve water that the Plan is being updated and reviewed. The CWC specifies that this must be done at least 60 days prior to the public hearing. The public hearing will take place at the Sacramento County Board of Supervisors Chambers, located at 700 H Street, Suite 1450, Sacramento, CA 95814. The exact date and time of the public hearing will be announced online at http://www.saccounty.net.

The Water Agency's Urban Water Management Plan will discuss and describe the following:

- Existing water supplies;
- Projected water demands in the Water Agency's service area over the next 25 years;
- Projected water supplies available to the Water Agency over the next 25 years, the reliability of that supply, and general schedules for water supply projects;
- Water Agency water conservation activities;
- And a comparison of water supply and water demand over the next 25 years under different hydrological assumptions (normal year, single dry year, multiple dry years).

Please share this notification with anyone in your organization that might be interested. If you have any questions or comments regarding the Urban Water Management, please contact Mr. Dave Zuccaro at 916-875-6917 or at <u>ZuccaroD@SacCounty.NET</u>.

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA <u>PSelsky@brwncald.com</u> T 916.853.5306 | C 916.612.9832 *Licensed in California



From: Sent: To: Cc: Subject: Paul Selsky Friday, March 25, 2016 3:11 PM 'Igill@elkgrovecity.org' ZuccaroD@SacCounty.NET Notification of Urban Water Management Plan Update

To: Ms. Laura Gill City Manager City of Elk Grove

Dear Ms. Gill:

This email is being sent on behalf of Sacramento County Water Agency (Water Agency) to notify you that the Water Agency is updating its Urban Water Management Plan (Plan) and will hold a public hearing to discuss these efforts. The California Water Code (CWC) 10621 (b) requires that agencies notify cities and counties to which they serve water that the Plan is being updated and reviewed. The CWC specifies that this must be done at least 60 days prior to the public hearing. The public hearing will take place at the Sacramento County Board of Supervisors Chambers, located at 700 H Street, Suite 1450, Sacramento, CA 95814. The exact date and time of the public hearing will be announced online at http://www.saccounty.net.

The Water Agency's Urban Water Management Plan will discuss and describe the following:

- Existing water supplies;
- Projected water demands in the Water Agency's service area over the next 25 years;
- Projected water supplies available to the Water Agency over the next 25 years, the reliability of that supply, and general schedules for water supply projects;
- Water Agency water conservation activities;
- And a comparison of water supply and water demand over the next 25 years under different hydrological assumptions (normal year, single dry year, multiple dry years).

Please share this notification with anyone in your organization that might be interested. If you have any questions or comments regarding the Urban Water Management, please contact Mr. Dave Zuccaro at 916-875-6917 or at <u>ZuccaroD@SacCounty.NET</u>.

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA PSelsky@brwncald.com T 916.853.5306 | C 916.612.9832 *Licensed in California



From:	Paul Selsky
Sent:	Friday, March 25, 2016 3:11 PM
To:	Jim Peifer
Cc:	ZuccaroD@SacCounty.NET
Subject:	Notification of Urban Water Management Plan Update

To: Mr. Jim Peifer City of Sacramento

Dear Mr. Peifer:

This email is being sent on behalf of Sacramento County Water Agency (Water Agency) to notify you that the Water Agency is updating its Urban Water Management Plan (Plan) and will hold a public hearing to discuss these efforts. The California Water Code (CWC) 10621 (b) requires that agencies notify cities and counties to which they serve water that the Plan is being updated and reviewed. The CWC specifies that this must be done at least 60 days prior to the public hearing. The public hearing will take place at the Sacramento County Board of Supervisors Chambers, located at 700 H Street, Suite 1450, Sacramento, CA 95814. The exact date and time of the public hearing will be announced online at http://www.saccounty.net.

The Water Agency's Urban Water Management Plan will discuss and describe the following:

- Existing water supplies;
- Projected water demands in the Water Agency's service area over the next 25 years;
- Projected water supplies available to the Water Agency over the next 25 years, the reliability of that supply, and general schedules for water supply projects;
- Water Agency water conservation activities;
- And a comparison of water supply and water demand over the next 25 years under different hydrological assumptions (normal year, single dry year, multiple dry years).

Please share this notification with anyone in your organization that might be interested. If you have any questions or comments regarding the Urban Water Management, please contact Mr. Dave Zuccaro at 916-875-6917 or at <u>ZuccaroD@SacCounty.NET</u>.

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA <u>PSelsky@brwncald.com</u> T 916.853.5306 | C 916.612.9832 *Licensed in California



From:	Brenda Estrada
To:	Paul Selsky
Cc:	Brett Ewart; underwoodd@SacCounty.NET; Paige Dulberg; Melanie Holton; ZuccaroD@SacCounty.NET
Subject:	RE: City of Sacramento UWMP
Date:	Tuesday, May 03, 2016 1:21:17 PM
Attachments:	image001.gif

Hi Paul,

Thank you for sending the information. We have also been listing the number of 2015 connections in our descriptions for the wholesale agencies service area description. Would you be able to provide us with this number? Also, would there be any specific demographic factors the City should include regarding SCWA's service area? Thank you. Brenda

From: Paul Selsky [mailto:PSelsky@BrwnCald.com]
Sent: Monday, May 02, 2016 4:27 PM
To: Brenda Estrada <bestrada@westyost.com>
Cc: Brett Ewart <BEwart@cityofsacramento.org>; underwoodd@SacCounty.NET; Paige Dulberg
<pdulberg@westyost.com>; Melanie Holton <MHolton@BrwnCald.com>;
ZuccaroD@SacCounty.NET
Subject: RE: City of Sacramento UWMP

Brenda,

The projected population for SCWA is provided in Table 3-2 below. The City of Sacramento wholesale supply would be applicable to a portion of the Zone 40 population. The projected population in the City's Place of Use area within Zone 40 has not been specifically broken out.

The amount of water assumed to be available to serve the POU area within Zone 40 is estimated to be 9,300 ac-ft/yr. This wholesale supply is not planned for use until the interconnection is constructed with the City, which is assumed to not occur until after 2040. Please let us know if this information is consistent with the City's view.

Table 3-2. (DWR Table 3-1 R) Retail: Population - Current and Projected									
Water system	2015	2020	2025	2030	2035	2040			
Arden Park Vista ^(a)	(b)	9,372	9,372	9,372	9,372	9,372			
Hood Water Maintenance District ^(a)	(b)	256	256	256	256	256			
East Walnut Grove ^(a)	(b)	428	432	436	440	440			
Southwest Tract Water Maintenance District ^(a)	(b)	157	157	157	157	157			
Northgate 880 ^(a)	(b)	0	0	0	0	0			
Zone 40, Laguna Vineyard and Mather-Sunrise ^(C)	(b)	186,347	220,402	256,900	295,843	337,229			
Metro Air Park ^(a)	(b)	0	0	0	0	0			

	Population served	165,895	196,560	230,619	267,121	306,068	347,454			
(a)	³⁾ Based on projection in 2010 UWMP.									
(b)	Not quantified separately with DWR population tool.									
(c)	Population projection developed in Water System Infrastructure Plan Update (SCWA, 2016).									

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA PSelsky@brwncald.com T 916.853.5306 | C 916.612.9832 *Licensed in California



Get water industry news delivered to your desktop, free, from BCWaterNews.com Sign up now!

From: Brenda Estrada [mailto:bestrada@westyost.com]
Sent: Thursday, April 28, 2016 8:18 AM
To: Paul Selsky; Melanie Holton
Cc: Brett Ewart; underwoodd@SacCounty.NET; Paige Dulberg
Subject: City of Sacramento UWMP

Melanie,

I appreciate you talking with me this morning about Sacramento's UWMP. As I mentioned, we are working with the City in preparing their 2015 UWMP. Since the City provides wholesale water to SCWA, we need to get some information to include about SCWA. We need to get the population projection information and wholesale supply assumptions SCWA will be using in their 2015 UWMP. If there is any additional information about SCWA's system you think should be included please provide that information also and we will work with the City on including the data.

We would appreciate getting this information early next week if at all possible. If you have any questions, please feel free to contact me.

Thank you, Brenda Brenda Estrada WEST YOST ASSOCIATES 2020 Research Park Drive, Suite 100 Davis CA, 95618 office 530.756.5905 direct 530.792.3250 bestrada@westyost.com

www.westyost.com | LinkedIn | Facebook

From:	Paul Selsky
To:	Brenda Estrada
Cc:	Brett Ewart; underwoodd@SacCounty.NET; Paige Dulberg; Melanie Holton; ZuccaroD@SacCounty.NET
Subject:	Re: City of Sacramento UWMP
Date:	Thursday, May 05, 2016 10:27:53 AM
Attachments:	image001.gif

Brenda,

Here is the 2015 connection info:

Laguna Vineyard system 43,767 Mather Sunrise system 5,482

Paul

From:	Paul Selsky
Sent:	Tuesday, May 24, 2016 3:34 PM
To:	'Ibillingsley@usbr.gov'
Cc:	ZuccaroD@SacCounty.NET
Subject:	Water Projections for Urban Water Management Plan

To: Lucille Billingsley US Bureau of Reclamation

Dear Ms. Billingsley,

On behalf of Sacramento County Water Agency (Water Agency), I am contacting you to provide the water use projections from the Central Valley Project (CVP) supply source that will be presented in the 2015 Urban Water Management Plan. This coordination with the wholesale water supplier is required by the California Department of Water Resources as part of the development of the Water Agency's Urban Water Management Plan, including the documentation of the coordination.

It is assumed that the Water Agency has a total CVP supply of 45,000 ac-ft/yr available for normal climate years. For the single dry year scenario it is assumed that the CVP supply would be 25% of the prior three year average use of the CVP supply. The three year multiple dry year scenario mimics the water supply conditions of 2013 to 2015 when CVP allocations were 100 percent, 75 percent, and 25 percent of the average use of CVP supplies during the previous three years.

The tables below are extracted from the draft Urban Water Management. Table 6-12 presents the projected normal year water supplies for the Water Agency including the CVP supplies. As noted in the detail column in Table 6-12, the Water Agency could increase the use of CVP supplies in a normal year up to 34,200 ac-ft/yr based on their water treatment plant capacity and to what extent they used their other supplies. Tables 7-10 and 7-11 present the projected supplies for the single dry and the second year of the multiple dry years scenario. Year 3 of the multiple dry year scenario would be the same as the single dry year shown in Table 7-10. The dry year CVP supply values presented in Tables 7-10 and 7-11 are determined based on a normal year use of CVP supply of 32,000 ac-ft/yr in 2020 increasing to 34,000 ac-ft/yr in 2040.

The draft 2015 Urban Water Management Plan is available under "Doing Business with Us/Engineering Reports" at this link: <u>http://www.scwa.net</u>. If you have any feedback on these projections, please contact me and Mr. Dave Zuccaro at <u>ZuccaroD@SacCounty.NET</u>.

	Та	ble 6-12. (DWF	R Table 6-9 R) R	letail: Water Su	pplies — Proje	cted, ac-ft/yr				
Additional detail on water supply		Projected Water Supply Report To the Extent Practicable								
	2020		2025		2030		2035			
	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonabl available volume	
CVP water. SCWA may vary this amount in combination with the appropriative surface water, remediated groundwater, and transfer supplies so that the	21,300	45,000	21,300	45,000	21,300	45,000	21,300	45,000	21,300	

combined total does not exceed the total annual demand that the Vineyard SWTP can supply of approximately 34,200 ac-ft/yr.									
City of Sacramento supply. Not planned for use until the interconnection with the City is constructed after 2040.	0	9,300	0	9,300	0	9,300	0	9,300	0
Appropriative water. SCWA may vary this amount as described for purchased water.	4,000	71,000	4,000	71,000	4,000	71,000	4,000	71,000	4,000
Available volume based on groundwater supply capacity. Safe yield not quantified.	47,000		47,000		52,000		62,000		62,000
Remediated groundwater. SCWA may vary this amount as described for purchased water.	8,900	8,900	8,900	8,900	8,900	8,900	8,900	8,900	8,900
Other surface water supplies. SCWA may vary this amount as described for purchased water.	0	9,600	0	9,600	0	9,600	0	9,600	0
	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
	82,900	145,500	82,900	145,500	87,900	145,500	97,900	145,500	97,900

Table 7-10. Projected Available Single Dry Year Water Supplies with Facility Constraints, ac-ft/yr									
Water Supply	2020	2025	2030	2035	2040				
Surface water, all types									
Purchased water									
CVP	8,000	8,300	8,400	8,400	8,600				
City of Sacramento									
Surface water (appropriative)	-	-	-	-	-				
Transfers (other surface water supplies)	9,600	9,600	9,600	9,600	9,600				
Other (remediated groundwater)	8,900	8,900	8,900	8,900	8,900				
Subtotal	26,500	26,800	26,900	26,900	27,100				
Groundwater for Zone 40	41,000	41,000	46,000	56,000	56,000				
Groundwater for non Zone 40 systems	6,000	6,000	6,000	6,000	6,000				
Recycled water	1,700	1,700	1,700	1,700	1,700				
Total	75,200	75,500	80,600	90,600	90,800				
Wholesale supply to retailers	5,000	5,000	6,000	7,000	7,000				
Retail supply w/ recycled water	70,200	70,500	74,600	83,600	83,800				

Notes: This table is also applicable for the third year of the multiple dry year scenario.

Table 7-11. Projected Available Multiple Dry Years Water Supplies for Second Year with Facility Constraints, ac-ft/yr									
Water Supply	2020	2025	2030	2035	2040				
Surface water, all types									
Purchased water									
CVP	24,000	24,900	25,050	25,125	25,650				
City of Sacramento									

Surface water (appropriative)	-	-	-	-	-
Transfers (other surface water supplies)	1,300	400	250	175	
Other (remediated groundwater)	8,900	8,900	8,900	8,900	8,550
Subtotal	34,200	34,200	34,200	34,200	34,200
Groundwater for Zone 40	41,000	41,000	46,000	56,000	56,000
Groundwater for non Zone 40 systems	6,000	6,000	6,000	6,000	6,000
Recycled water	1,700	1,700	1,700	1,700	1,700
Total	82,900	82,900	87,900	97,900	97,900
Wholesale supply to retailers	5,000	5,000	6,000	7,000	7,000
Retail supply w/ recycled water	77,900	77,900	81,900	90,900	90,900

Notes: See Table 6-12 for the first year and Table 7-10 for the third year for a breakdown of supplies for the multiple dry year scenario.

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA PSelsky@brwncald.com T 916.853.5306 | C 916.612.9832 *Licensed in California



From:	Paul Selsky
То:	"deana.donohue@amwater.com"
Cc:	ZuccaroD@SacCounty.NET
Subject:	Coordination with Sacramento Co WA UWMP
Date:	Tuesday, May 24, 2016 3:33:44 PM
Attachments:	image001.gif

To: Ms. Deana Donohue California American Water Company

Dear Ms. Donohue:

On behalf of Sacramento County Water Agency, I am contacting you to provide the amounts of water that we have projected that would be supplied to California American Water Company in the Water Agency's 2015 Urban Water Management Plan. Sacramento County Water Agency is anticipated to be a wholesale water supplier to your future water system located in the western portion of the Rio del Oro planning subarea.

The tables below are extracted from the draft Urban Water Management Plan and include the quantities for both of Sacramento County Water Agency's wholesale customers. Table 3-3 presents the projected populations. Table 4-5 presents the projected water demands. Tables 7-5, 7-7, and 7-9 present the projected supply to demand comparison for the two wholesale customers for the normal, single dry, and multiple dry years scenarios.

The draft 2015 Urban Water Management Plan is available under "Doing Business with Us/Engineering Reports" at this link: <u>http://www.scwa.net</u>. If you have any feedback on these projections, please contact me and Mr. Dave Zuccaro at <u>ZuccaroD@SacCounty.NET</u>.

Table 3-3. (DWR Table 3-1 W) Wholesale: Population - Current and Projected								
Retail agency	2015	2020	2025	2030	2035	2040		
Elk Grove Water District Wholesale Area		12,053	12,963	13,845	14,697	15,520		
Cal-Am Rio del Oro	-	-	2,500	5,000	7,500	10,000		
Total		12,053	15,463	18,845	22,197	25,520		

Note: Developed by SCWA. No population projection has been received from the retail agencies.

Table 4-5. (DWR Table 4-2 W) Wholesale: Demands for Potable and Raw Water - Projected								
Use type	Additional description		Projected water use, ac-ft/yr					
	Additional description	2020	2025	2030	2035	2040		
Sales to other agencies	Elk Grove Water District	4,000	4,200	4,560	4,560	4,560		
Sales to other agencies	California American Water Company	0	486	1,006	1,491	2,012		
Losses	Losses from supply sources to wholesale/retail interconnections projected to be 3.0% of wholesale delivery amounts.	120	141	167	182	197		
Total		4,120	4,826	5,733	6,233	6,769		

Table 7-5. (DWR Table 7-2 W) Wholesale: Normal Year Supply and Demand Comparison, ac-ft/yr							
	2020	2025	2030	2035	2040		

Supply totals	5,000	5,000	6,000	7,000	7,000
Demand totals	4,120	4,826	5,733	6,233	6,769
Difference	880	174	267	767	231

Table 7-7. (DWR Table 7-3 W) Wholesale: Single Dry Year Supply and Demand Comparison, ac-ft/yr								
	2020	2025	2030	2035	2040			
Supply totals	5,000	5,000	6,000	7,000	7,000			
Demand totals	4,120	4,826	5,733	6,233	6,769			
Difference	880	174	267	767	231			

Notes: See Table 7-10 for a break down of the supplies by source.

Table 7-9. (DWR Table 7-4 W) Wholesale: Multiple Dry Years Supply and Demand Comparison, ac-ft/yr								
		2020	2025	2030	2035	2040		
	Supply totals	5,000	5,000	6,000	7,000	7,000		
First year	Demand totals	4,120	4,826	5,733	6,233	6,769		
	Difference	880	174	267	767	231		
	Supply totals	5,000	5,000	6,000	7,000	7,000		
Second year	Demand totals	4,120	4,826	5,733	6,233	6,769		
	Difference	880	174	267	767	231		
	Supply totals	5,000	5,000	6,000	7,000	7,000		
Third year	Demand totals	4,120	4,826	5,733	6,233	6,769		
	Difference	880	174	267	767	231		

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA PSelsky@brwncald.com T 916.853.5306 | C 916.612.9832 *Licensed in California



From:	Paul Selsky
Sent:	Tuesday, May 24, 2016 3:34 PM
То:	'Greg Young'; 'Bruce Kimilos'
Cc:	ZuccaroD@SacCounty.NET
Subject:	RE: 2015 UWMP

To: Greg Young and Bruce Kimilos Elk Grove Water District

Dear Mr. Young and Kimilos:

On behalf of Sacramento County Water Agency, I want to get back to you to provide the amounts of water that we have projected that would be supplied to Elk Grove Water District in the Water Agency's 2015 Urban Water Management Plan. We would like to get your input on these values. We know that your email dated Sacramento County Water Agency dated March 28, 2016 said that you were developing these projections.

The tables below are extracted from the draft Urban Water Management Plan and include the quantities for both of Sacramento County Water Agency's wholesale customers. Table 3-3 presents the projected populations. Table 4-5 presents the projected water demands. Tables 7-5, 7-7, and 7-9 present the projected supply to demand comparison for the two wholesale customers for the normal, single dry, and multiple dry years scenarios.

The draft 2015 Urban Water Management Plan is available under "Doing Business with Us/Engineering Reports" at this link: <u>http://www.scwa.net</u>. If you have any feedback on these projections, please contact me and Mr. Dave Zuccaro at <u>ZuccaroD@SacCounty.NET</u>.

Table 3-3. (DWR Table 3-1 W) Wholesale: Population - Current and Projected								
Retail agency	2015	2020	2025	2030	2035	2040		
Elk Grove Water District Wholesale Area		12,053	12,963	13,845	14,697	15,520		
Cal-Am Rio del Oro	-	-	2,500	5,000	7,500	10,000		
Total		12,053	15,463	18,845	22,197	25,520		

Note: Developed by SCWA. No population projection has been received from the retail agencies.

Table 4-5. (DWR Table 4-2 W) Wholesale: Demands for Potable and Raw Water - Projected

lice type	Additional description	Projected water use, ac-ft/yr					
Use type	Additional description	2020	2025	2030	2035	2040	
Sales to other agencies	Elk Grove Water District	4,000	4,200	4,560	4,560	4,560	
Sales to other agencies	California American Water Company	0	486	1,006	1,491	2,012	
Losses	Losses from supply sources to wholesale/retail interconnections projected to be 3.0% of wholesale delivery amounts.	120	141	167	182	197	
Total		4,120	4,826	5,733	6,233	6,769	

Table 7-5. (DWR Table 7-2 W) Wholesale: Normal Year Supply and Demand Comparison, ac-ft/yr						
2020 2025 2030 2035 2040						
Supply totals	5,000	5,000	6,000	7,000	7,000	
Demand totals	4,120	4,826	5,733	6,233	6,769	
Difference	880	174	267	767	231	

Table 7-7. (DWR Table 7-3 W) Wholesale: Single Dry Year Supply and Demand Comparison, ac-ft/yr						
	2020	2025	2030	2035	2040	
Supply totals	5,000	5,000	6,000	7,000	7,000	
Demand totals	4,120	4,826	5,733	6,233	6,769	
Difference	880	174	267	767	231	

Notes: See Table 7-10 for a break down of the supplies by source.

Table 7-9. (DWR Table 7-4 W) Wholesale: Multiple Dry Years Supply and Demand Comparison, ac-ft/yr						
		2020	2025	2030	2035	2040
First year	Supply totals	5,000	5,000	6,000	7,000	7,000
	Demand totals	4,120	4,826	5,733	6,233	6,769
	Difference	880	174	267	767	231
Second year	Supply totals	5,000	5,000	6,000	7,000	7,000
	Demand totals	4,120	4,826	5,733	6,233	6,769
	Difference	880	174	267	767	231
Third year	Supply totals	5,000	5,000	6,000	7,000	7,000
	Demand totals	4,120	4,826	5,733	6,233	6,769
	Difference	880	174	267	767	231

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA <u>PSelsky@brwncald.com</u> T 916.853.5306 | C 916.612.9832 *Licensed in California



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From: Paul Selsky Sent: Monday, March 28, 2016 4:27 PM To: 'Greg Young' Cc: Bruce Kimilos; ZuccaroD@SacCounty.NET Subject: RE: 2015 UWMP

Greg,

Thanks for the info. We will standby for your input. Can you also provide an estimate of population for the Elk Grove wholesale area for DWR Table 3-1?

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA PSelsky@brwncald.com T 916.853.5306 | C 916.612.9832 *Licensed in California



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From: Greg Young [mailto:gyoung@tullyandyoung.com]
Sent: Monday, March 28, 2016 3:58 PM
To: Paul Selsky
Cc: Bruce Kimilos
Subject: Re: 2015 UWMP

Paul,

I wanted to follow up with you regarding Elk Grove's representation of demand on the Sac County water system for purposes of the 2015 UWMPs. As outlined below, we had represented the demand to be capped at 4,560 af/yr, which was represented in the 2010 UWMP as a "contracted value," and as the max demand in 2030 and beyond. The 2010 UWMP did not include a copy of the contract with the County. We have subsequently received a copy of the functioning contract and now see that there is NO cap on the volume from the County. Specifically, the contract states the County "shall deliver all potable water necessary" (June 2002 "Restated Master Water Agreement").

This is obviously a different representation than that presented in the 2010 UWMP. So, we are reassessing the demand out to 2040 for the Service Area 2 that is served with County water. We just received information from the City regarding their views of growth in this zone, and will prepare new demand estimates this week. The resulting values may be different than the 4,560 af/yr, but should be the more appropriate demands to include. I wanted to give you a heads up on this!

Regards,

Greg Young, P.E. Principal Tully & Young Comprehensive Water Planning o: 916.669.9356 m: 916.769.3749 3600 American River Drive, Suite 260 Sacramento, California 95864 gyoung@tullyandyoung.com www.tullyandyoung.com

From: Paul Selsky <<u>PSelsky@BrwnCald.com</u>>
Date: Wednesday, March 2, 2016 at 10:16 AM
To: Bruce Kimilos <<u>bkamilos@egwd.org</u>>
Cc: "Zuccaro. Dave" <<u>ZuccaroD@SacCounty.NET</u>>, "Perez. Juan" <<u>perezju@SacCounty.NET</u>>, "Melanie Holton (<u>melanieholton@icloud.com</u>)" <<u>melanieholton@icloud.com</u>>, Kerry Schmitz <<u>schmitzk@SacCounty.NET</u>>, Mark Madison <<u>MMadison@egwd.org</u>>, Greg Young <<u>gyoung@tullyandyoung.com</u>>
Subject: Re: 2015 UWMP

Bruce,

Those values look good. Thanks for the info.

Paul

On Feb 29, 2016, at 8:19 AM, Bruce Kamilos <<u>bkamilos@egwd.org</u><<u>mailto:bkamilos@egwd.org</u>> wrote:

Hello Dave & Paul,

Attached is an email and letter Elk Grove Water District (EGWD) sent to Kerry Schmitz addressing this very subject. Please review the letter in the attached email. The letter explains how EGWD intends to represent the availability and reliability of SCWA wholesale water supply for its 2015 Urban Water Management Plan (UWMP).

Please provide your concurrence that you agree with this approach. I may be contacted by email or phone if you have any questions. Or, if you prefer, contact directly our UWMP consultant, Greg Young, of Tully & Young to further discuss the approach. Greg's contact information is:

Greg Young, P.E. Principal Tully & Young Comprehensive Water Planning o: 916.669.9356 m: 916.769.3749 3600 American River Drive, Suite 260 Sacramento, California 95864 gyoung@tullyandyoung.com<applewebdata://DAF95927-9E50-4E2F-AC90-F9DAE6AFB746/gyoung@tullyandyoung.com>

Thank you,

Bruce M. Kamilos, P.E. Elk Grove Water District (916) 585-9385 <u>bkamilos@egwd.org</u><<u>mailto:mmadison@egwd.org</u>>

From: Zuccaro. Dave [<u>mailto:ZuccaroD@SacCounty.NET</u>] Sent: Friday, February 26, 2016 3:01 PM To: Paul Selsky Cc: Perez. Juan; Melanie Holton (<u>melanieholton@icloud.com</u><<u>mailto:melanieholton@icloud.com</u>); Bruce Kamilos Subject: RE: 2015 UWMP

Yes,

It would be great if you would initiate contact with Bruce Kamilos of the Elk Grove Water District? We would like to make sure that we complying with the State's requirements. It is my understanding that they are using Tully & Young to help them prepare their 2015 UWMP.

Bruce's contact info is as follows:

Bruce M. Kamilos, P.E. Associate Civil Engineer Elk Grove Water District 9257 Elk Grove Blvd. Elk Grove, CA 95624 (916) 585-9385 bkamilos@egwd.org<mailto:mmadison@egwd.org>

From:	Paul Selsky
Sent:	Tuesday, May 24, 2016 3:34 PM
То:	'cabhar@cityofranchocordova.org'
Cc:	ZuccaroD@SacCounty.NET
Subject:	Urban Water Management Plan public hearing

To: Mr. Cyrus Abhar City Manager City of Rancho Cordova

Dear Mr. Abhar:

As a follow-up to our email to you dated March 25, 2016, we want to directly provide you the notice of public hearing for Sacramento County Water Agency's Urban Water Management Plan. The draft document is available under "Doing Business with Us/Engineering Reports" at this link: <u>http://www.scwa.net</u>

If you have any questions or comments regarding the Urban Water Management Plan, please contact Mr. Dave Zuccaro at <u>ZuccaroD@SacCounty.NET</u>.

NO 636 PUBLIC NOTICE NOTICE OF PUBLIC HEARING

SACRAMENTO COUNTY WATER AGENCY The Board of Directors of the Sacramento County Water Agency will conduct a public hearing pursuant to California Water Code Section 10642 regarding the Sacramento County Water Agency's proposed 2015 Urban Water Management Plan. The hearing will be held at the following time and place:

May 25, 2016 2:00 p.m. Board of Supervisors Chambers 700 H Street, Suite 1450 Sacramento, CA 95814

At the hearing, the Sacramento County Water Agency Board of Directors will receive comments from the public regarding the proposed Urban Water Management Plan and will vote whether to adopt the plan. The plan is available for public review at SCWA.net and at 10151 Florin Road.

Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA <u>PSelsky@brwncald.com</u> T 916.853.5306 | C 916.612.9832 From: Sent: To: Cc: Subject: Paul Selsky Tuesday, May 24, 2016 3:34 PM 'Igill@elkgrovecity.org' ZuccaroD@SacCounty.NET Urban Water Management Plan public hearing

To: Ms. Laura Gill City Manager City of Elk Grove

Dear Ms. Gill:

As a follow-up to our email to you dated March 25, 2016, we want to directly provide you the notice of public hearing for Sacramento County Water Agency's Urban Water Management Plan. The draft document is available under "Doing Business with Us/Engineering Reports" at this link: <u>http://www.scwa.net</u>

If you have any questions or comments regarding the Urban Water Management Plan, please contact Mr. Dave Zuccaro at <u>ZuccaroD@SacCounty.NET</u>.

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Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA <u>PSelsky@brwncald.com</u> T 916.853.5306 | C 916.612.9832 From:Paul SelskySent:Tuesday, May 24, 2016 3:34 PMTo:Jim PeiferCc:ZuccaroD@SacCounty.NETSubject:Urban Water Management Plan public hearing

To: Mr. Jim Peifer City of Sacramento

Dear Mr. Peifer:

As a follow-up to our email to you dated March 25, 2016, we want to directly provide you the notice of public hearing for Sacramento County Water Agency's Urban Water Management Plan. The draft document is available under "Doing Business with Us/Engineering Reports" at this link: <u>http://www.scwa.net</u>

If you have any questions or comments regarding the Urban Water Management Plan, please contact Mr. Dave Zuccaro at <u>ZuccaroD@SacCounty.NET</u>.

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Sincerely,

Paul Selsky, P.E.*

Brown and Caldwell | Rancho Cordova, CA <u>PSelsky@brwncald.com</u> T 916.853.5306 | C 916.612.9832

Appendix B: Notice of Public Hearing

NO 636 PUBLIC NOTICE NOTICE OF PUBLIC HEARING

SACRAMENTO COUNTY WATER AGENCY The Board of Directors of the Sacramento County Water Agency will conduct a public hearing pursuant to California Water Code Section 10642 regarding the Sacramento County Water Agency's proposed 2015 Urban Water Management Plan. The hearing will be held at the following time and place:

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Appendix C: Urban Water Management Plan Adoption

APPROVED BOARD OF SUPERVISORS

SACRAMENTO COUNTY WATER AGENCY CALIFORNIA

MAY 25 2016 Almence linn Clerk of the Board

To:

For the Agenda of: May 25, 2016 Timed: 2:40 p.m.

Board of Div	rectors		
Sacramento	County	Water	Agency

From: Department of Water Resources

Subject: Public Hearing For The Adoption Of The Sacramento County Water Agency 2015 Urban Water Management Plan Update

Supervisorial District(s): All

Contact: Dave Underwood, Senior Civil Engineer, 875-6947

Overview

The California Water Code (Water Code) §10620 requires that every urban water supplier prepare and adopt an Urban Water Management Plan (UWMP). Once adopted, Water Code §10621 requires the UWMP to be updated every five years. On December 6, 2005, the Sacramento County Water Agency (SCWA) Board adopted its 2005 UWMP and the 2010 update was adopted by the SCWA Board on June 21, 2011. SCWA's 2015 UWMP update incorporates the latest planning information developed by SCWA and satisfies all current requirements in the Water Code. The 2015 UWMP can be found on-line at <u>www.scwa.net</u> or at the Clerk of the Board's office.

Recommendations

- 1. Open public hearing on the adoption of the 2015 SCWA UWMP update.
- 2. Close public hearing.
- 3. Adopt the SCWA UWMP update.

Measures/Evaluation

Measures/Evaluation are not applicable to this agenda item.

Fiscal Impact

Adopting the UWMP has no direct fiscal impact. However, completing the update will allow SCWA to qualify for future applications of State administered grants, loans, and drought assistance.

Public Hearing For The Adoption Of The Sacramento County Water Agency 2015 Urban Water Management Plan Update Page 2

BACKGROUND

The Urban Water Management Planning Act (Act) became part of the California Water Code with the passage of Assembly Bill 797 during the 1983-1984 regular session of the California legislature. The Act describes the contents of the UWMP as well as how urban water suppliers should adopt and implement the UWMP. The Act was most recently amended in November 2009 with the adoption of Senate Bill (SB) x7-7, also known as the Water Conservation Act of 2009. The most significant revision at that time was the requirement to establish per capita water use targets.

The Act requires every urban water supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet (ac-ft) of water annually per service area to adopt and submit a UWMP every five years to the California Department of Water Resources. Currently, SCWA provides water service to approximately 57,000 connections and serves approximately 40,000 acre-feet of potable drinking water (2015) cumulatively to its nine service areas throughout Sacramento County (Zone 40 North, Central and South service areas, Arden Park Vista, Northgate 880, Metro Air Park, Southwest Track, Hood and East Walnut Grove).

The State considers the UWMP a long-range planning document for water supply and a source of data for development of General Plans and Regional Water Plans. UWMPs contain the latest information on available water supplies, water supply reliability, water shortage contingencies, recycled water usage, and water conservation. The UWMP provides key components in developing Integrated Regional Water Management Plans, and is a source of information for Water Supply Assessments (Senate Bill 610) Water Code §10613 *et seq. (Added by* Stats. 2001, c. 643) and Written Verifications of Supply (Senate Bill 221) Water Code §66473.7 (*Added by* Stats. 2001, c. 642). The State also requires an approved UWMP to qualify for State sponsored grants and loans.

DISCUSSION

The SCWA 2015 UWMP includes an analysis of all service areas within Zone 41. The cities of Sacramento, Elk Grove and Rancho Cordova and neighboring water agencies were notified of SCWA's intention to update its UWMP and that there would be an opportunity for public review and a public hearing later this year. Notice of the public hearing was published in the Sacramento Bee on May 9th.

Since approval of the 2010 UWMP, SCWA has been involved in various planning efforts that have a bearing on the UWMP. These efforts include the Zone 40 Master Plan Amendment for Cordova Hills (March 2011), the Zone 40 Water System Infrastructure Plan Update (in progress), Zone 40 Water Supply Master Plan Amendments for new growth areas (in progress), various activities related to the Sustainable Groundwater Management Act (in progress), and the Recycled Water Feasibility Study (in progress).

The 2015 UWMP incorporates the latest planning information developed by SCWA and satisfies all current requirements set forth in the Water Code. The significant changes in the 2015 UWMP compared to prior versions include:
Public Hearing For The Adoption Of The Sacramento County Water Agency 2015 Urban Water Management Plan Update

Page 3

- 2020 per capita demand target was updated. SCWA target does not change significantly.
- Shows SCWA compliance with the 2015 interim per capita demand target.
- Population and water demand projections are based on recent Water System Infrastructure Plan update.
- Dry year supply projections were updated to reflect recent low allocation of Central Valley Project (CVP) supplies.

The 2015 UWMP would have ordinarily been due by June 2015, but the State granted water providers an extension to June 30, 2016 because of updated plan requirements described above.

FINANCIAL ANALYSIS

Adopting the UWMP has no direct fiscal impact. However, completing the update will allow SCWA to qualify for future applications of State administered grants, loans, and drought assistance.

Respectfully submitted,

APPROVED: NAVDEEP S. GILL County Executive

MICHAEL L. PETERSON, Director Department of Water Resources

By:

ROBERT B. LEONARD Chief Deputy County Executive Phil Serna – District 1 Patrick Kennedy – District 2 Susan Peters – District 3 Roberta MacGlashan – District 4 (Chair) Don Nottoli – District 5 (Vice Chair)



ACTION SUMMARY BOARD OF SUPERVISORS 700 H STREET SUITE 1450 SACRAMENTO, CA 95814

WEDNESDAY

May 25, 2016

2:00 PM

(All Supervisors were present)

The Board meets simultaneously as the Board of Supervisors and as the governing board of all special districts having business heard this date.

The Board of Supervisors welcomes and encourages participation in the meetings. At the outset of an item the Chair of the Board will announce the maximum amount of time per speaker that will be allowed for presentation of testimony.

Matters under the jurisdiction of the Board and not on the posted agenda may be addressed by the public following completion of regular business. The Board limits testimony on matters not on the posted agenda to five minutes per person and not more than fifteen minutes for a particular subject.

The public may electronically sign up to speak to the Board using the kiosk located in the back of the Board Chambers or the public may complete a speaker request form and submit it to the Clerk of the Board.

The meeting is videotaped and cablecast live on Metrocable 14 on the Comcast, Consolidated Communications and AT&T U-Verse Systems. It is closed captioned for hearing impaired viewers and webcast live at <u>http://www.saccounty.net</u>. There will be a rebroadcast of this meeting on Friday at 6:00 p.m. A DVD copy will be available for checkout through the County Library System seven to ten days following the meeting.

The on-line version of the agenda and associated materials are posted for your convenience at <u>http://www.saccounty.net</u>. Some documents may not be posted on-line because of their size and/or format (maps, site plans, and renderings). As they become available, hard copies of all documents are available at the Clerk of the Board's Office, 700 H Street, Room 2450.

Meeting facilities are accessible to persons with disabilities. Requests for interpreting services, assistive listening devices or other considerations should be through the Clerk of the Board's office by calling (916) 874-5411 (voice) and CA Relay Services 711 (for the hearing impaired), no later than five working days prior to the meeting.

ROLL CALL

PLEDGE OF ALLEGIANCE

http://www.agendanet.saccounty.net/sirepub/cache/2/fgeiymy1gintov3qksbophjq/1172106... 6/15/2016

15. 2:30 PM -- PLNP2015-00067. Vander Eyk Williamson Act Contact Rescission And New Contract Execution. Request To Partially Rescind An Existing Williamson Act Contract And Simultaneously Enter Into A New Williamson Act Contract Required To Approve A Lot Line Adjustment At 15041 State Highway 160 In The Delta Community. Applicant: Javier Medina; APNs 157-0100-092, 045, And 091; Environmental Determination: Exempt (Community Development) Supervisorial District(s): Nottoli

2:48 PM Board Action: Don Nottoli/ Phil Serna - Recognized the Exempt status of the environmental document. Approved the partial rescission of an existing Williamson Act Contract 70-AP-045 to remove Parcel 157-0100-092 and simultaneously adopted Resolution 2016-AP-001 covering Parcel 157-0100-092 and 157-0100-045 to facilitate the proposed Boundary Line Adjustment. The Board further amended conditions allowing 60 days for the conditions of approval to be completed prior to the Boundary Line Adjustment recordation and added findings recommended by staff.

AYES: Patrick Kennedy, Roberta MacGlashan, Don Nottoli, Susan Peters, Phil Serna NOES: (None) ABSTAIN: (None) ABSENT: (None) RECUSAL: (None) (PER POLITICAL REFORM ACT (§ 18702.5.))

SACRAMENTO COUNTY WATER AGENCY (Directors: P. Kennedy, R. MacGlashan, D. Nottoli, S. Peters, P. Serna)

16. <u>2:40 PM -- Public Hearing For The Adoption Of The Sacramento</u> <u>County Water Agency 2015 Urban Water Management Plan Update</u> (Water Resources) Supervisorial District(s): All

3:03 PM Board Action: Don Nottoli/ Phil Serna - Closed the public hearing. Adopted the Sacramento County Water Agency 2015 Urban Water Management Plan update.

AYES: Patrick Kennedy, Roberta MacGlashan, Don Nottoli, Susan Peters, Phil Serna NOES: (None) ABSTAIN: (None) ABSENT: (None) RECUSAL: (None) (PER POLITICAL REFORM ACT (§ 18702.5.))

Appendix D: DWR Urban Water Management Plan Checklist

D

Checklist Arranged by Subject

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location (Optional Column for Agency Use)
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	Appendix C
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	Pages 2-2 to 2-4
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	Pages 2-2 to 2-4 and Appendices A and B
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	Pages 3-1 to 3-3
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	Page 3-4
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	Page 3-5
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	Page 3-5
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Sections 3.4 and 5.4	Page 3-5 and Appendix E
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	Pages 4-1 to 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	Page 4-4 and Appendix G
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	Page 4-5
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	Page 5-2 and Appendix E

10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.	Baselines and Targets	Chapter 5 and App E	Page 5-2 and Appendix E
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	Page 5-2 and Appendix E
10608.24(a)	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	Page 5-2 and Appendix E
10608.24(d)(2)	08.24(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.		Section 5.8.2	N/A
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	Page 9-4
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	Page 5-2
10631(b)	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	Pages 6-16 to 6-19
10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	Page 6-2
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	Page 6-6
10631(b)(2)	Describe the groundwater basin.	System Supplies	Section 6.2.1	Pages 6-2 to 6-8
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	Page 6-6

10631(b)(2)	For unadjudicated basins, indicate whether or not the department has identified the basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.	System Supplies	Section 6.2.3	Page 6-7
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	Page 6-8
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	Pages 6-18 to 6-19
10631(d)	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	Page 6-14
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	Page 6-15
10631(h)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	Page 6-14
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	Page 2-2 to 2-3 and Appendix A
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	Page 2-2 and Appendix A
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	Page 6-8 to 6-9
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	Pages 6-9 to 6-11
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	Page 6-11 to 6-12
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	Page 6-12 to 6-13

10633(d)	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System Supplies (Recycled Water)	Section 6.5.4	Pages 6-11 to 6-12
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	Pages 6-12 to 6-13
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	Pages 6-13 to 6-14
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	Page 6-13 to 6-14
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	Pages 7-6
10631(c)(1)	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	Page 6-21, 7-1 and 7-6
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	Page 7-2
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	Page 7-1
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	Page 7-1
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	Pages 7-2 to 7-11
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	Page 8-1
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	Page 8-6
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	Page 8-5

10632(a)(4)	Identify mandatory prohibitions against specific water use practices during water shortages.	Water Shortage Contingency Planning	Section 8.2	Page 8-2
10632(a)(5)	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	Page 8-3
10632(a)(6)	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency Planning	Section 8.3	Page 8-3
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	Page 8-5
10632(a)(8)	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	Appendix I
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	Page 8-4
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	Page 9-1 to 9-4 and Appendix F
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	Pages 9-1 to 9-4
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	Appendix F
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	Page 10-1 and Appendix B
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	Pages 10-1, 10-2, and Appendix A
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	Page 10-1

10635(b)	Provide supporting documentation that Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Page 10-1 and Appendix C
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	Appendices A and B
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	Page 10-1 and Appendix B
10642	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	Appendix C
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	Appendix C
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	Appendix C
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	Page 10-1
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	Page 10-1

Appendix E: SB X7-7 Verification Forms

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			
	2008 total water deliveries	42,823	Acre Feet			
	2008 total volume of delivered recycled water	903	Acre Feet			
10- to 15-year	2008 recycled water as a percent of total deliveries	2.11%	Percent			
baseline period	Number of years in baseline period ^{1, 2}	10	Years			
	Year beginning baseline period range	1995				
	Year ending baseline period range ³	2004				
Evor	Number of years in baseline period	5	Years			
baseline period	Year beginning baseline period range	2003				
baseline period	Year ending baseline period range ⁴	2007				
¹ If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water						
delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. ² The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data. ²						

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

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

NOTES:

SB X7-7 Table 3: Service Area Population			
Y	ear	Population	
10 to 15 Ye	ar Baseline Po	opulation	
Year 1	1995	46,845	
Year 2	1996	50,343	
Year 3	1997	51,710	
Year 4	1998	56,913	
Year 5	1999	70,252	
Year 6	2000	73,421	
Year 7	2001	80,227	
Year 8	2002	89,738	
Year 9	2003	101,372	
Year 10	2004	112,711	
Year 11			
Year 12			
Year 13			
Year 14			
Year 15			
5 Year Base	eline Populatio	on	
Year 1	2003	101,372	
Year 2	2004	112,711	
Year 3	2005	126,204	
Year 4	2006	136,383	
Year 5	2007	141,991	
2015 Comp	liance Year P	opulation	
2	015	165,895	
NOTES:			

SB X7-7 Table 4: Annual Gross Water Use *								
		Volumo Into			Deduction	S		
Basel Fm SB X	ine Year 7-7 Table 3	Distribution System This column will remain blank until SB X7-7 Table 4-A is completed.	Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water This column will remain blank until SB X7-7 Table 4-B is completed.	Water Delivered for Agricultural Use	Process Water This column will remain blank until SB X7-7 Table 4-D is completed.	Annual Gross Water Use
10 to 15 Ye	ear Baseline - O	Gross Water U	se					
Year 1	1995	15,220			-		-	15,220
Year 2	1996	19,322			-		-	19,322
Year 3	1997	19,725			-		-	19,725
Year 4	1998	18,164	172		-		-	17,992
Year 5	1999	23,335	370		-		-	22,965
Year 6	2000	26,180	589		-		-	25,591
Year 7	2001	27,886	917		-		-	26,969
Year 8	2002	29,937	1,724		-		-	28,213
Year 9	2003	30,559	1,977		-		-	28,582
Year 10	2004	35,888	2,648		-		-	33,240
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 yea	r baseline ave	rage gross wat	ter use					23,782
5 Year Bas	eline - Gross W	Vater Use						
Year 1	2003	30,559	1,977		-		-	28,582
Year 2	2004	35,888	2,648		-		-	33,240
Year 3	2005	38,800	3,027		-		-	35,773
Year 4	2006	38,651	3,306		-		-	35,345
Year 5	2007	41,625	3,403		-		-	38,222
5 year base	line average g	gross water us	e					34,232
2015 Comp	liance Year - G	iross Water Us	е					
2	.015	31,093	2,689		-		-	28,404
* NOTE tha	t the units of r	measure must	remain con	sistent throug	hout the UWMI	² , as reported	in Table 2-3	
NOTES:	NOTES:							

SB X7-7 Table 4-A: Volume Entering the Distribution					
System(s)					
Complete o	one table fo	r each source.			
Name of So	ource	Groundwater			
This water	source is:				
\checkmark	The supplie	er's own water	source		
	A purchase	d or imported	source		
		Volumo	Motor Error	Corrected	
Pacolir	No Voor	Entoring	Adjustmont*	Volume	
		Distribution	Aujustment	Entering	
FIN SB X /-	-7 Table 3	Distribution	Optional	Distribution	
		System	(+/-)	System	
10 to 15 Ye	ear Baseline	- Water into D	istribution Syst	em	
Year 1	1995	13,706		13,706	
Year 2	1996	16,924		16,924	
Year 3	1997	18,175		18,175	
Year 4	1998	16,309		16,309	
Year 5	1999	21,375		21,375	
Year 6	2000	23,940		23,940	
Year 7	2001	23,612		23,612	
Year 8	2002	24,789		24,789	
Year 9	2003	25,657		25,657	
Year 10	2004	31,103		31,103	
Year 11	0			-	
Year 12	0			-	
Year 13	0			-	
Year 14	0			-	
Year 15	0			-	
5 Year Base	eline - Wate	r into Distribu	tion System	•	
Year 1	2003	25,657		25,657	
Year 2	2004	31,103		31,103	
Year 3	2005	33,048		33,048	
Year 4	2006	34,321		34,321	
Year 5	2007	36,222		36,222	
2015 Comp	liance Year	- Water into D	Distribution Syst	em	
20	15	24,652		24,652	
* Mete	er Error Adjusti	ment - See guidan	ce in Methodology	1, Step 3 of	
	Methodologies Document				
NOTES:					

SB X7-7 Table 4-A: Volume Entering the Distribution						
Name of So	ource	Surface Water				
This water	source is:					
	The supplier's own water source					
A purchased or imported source						
Baselir Fm SB X7-	ne Year -7 Table 3	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System		
10 to 15 Ye	ar Baseline	- Water into D	istribution Syst	em		
Year 1	1,995	1514		1,514		
Year 2	1,996	2398		2,398		
Year 3	1,997	840		840		
Year 4	1,998	1712		1,712		
Year 5	1,999	1788		1,788		
Year 6	2,000	1595		1,595		
Year 7	2,001	3044		3,044		
Year 8	2,002	4355		4,355		
Year 9	2,003	4040		4,040		
Year 10	2,004	4202		4,202		
Year 11	-			0		
Year 12	-			0		
Year 13	-			0		
Year 14	-			0		
Year 15	-			0		
5 Year Base	eline - Wate	r into Distribu	tion System			
Year 1	2,003	4040		4,040		
Year 2	2,004	4202		4,202		
Year 3	2,005	5040		5,040		
Year 4	2,006	4253		4,253		
Year 5	2,007	5403		5,403		
2015 Comp	oliance Year	- Water into D	Distribution Syst	em		
20	15	6,416		6,416		
* Mete	er Error Adjustr	ment - See guidan Methodologies D	ice in Methodology Iocument	1, Step 3 of		
NOTES:	NOTES:					

SB X7-7 Table 4-A: Volume Entering the Distribution				
Name of So	ource	Purchased from	n Golden State ar	nd SSWD
This water	source is:			
	The supplie	er's own water	source	
\checkmark	A purchase	d or imported	source	
Baselir Fm SB X7-	ne Year -7 Table 3	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System
10 to 15 Ye	ar Baseline	- Water into D	istribution Syst	em
Year 1	1,995	0		0
Year 2	1,996	0		0
Year 3	1,997	710		710
Year 4	1,998	143		143
Year 5	1,999	172		172
Year 6	2,000	645		645
Year 7	2,001	1230		1,230
Year 8	2,002	793		793
Year 9	2,003	862		862
Year 10	2,004	583		583
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
5 Year Base	eline - Wate	r into Distribu	tion System	
Year 1	2,003	862		862
Year 2	2,004	583		583
Year 3	2,005	712		712
Year 4	2,006	77		77
Year 5	2,007	0		0
2015 Comp	oliance Year	- Water into D	Distribution Syst	em
20	15	25		25
* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document				
NOTES:				

SB X7-7 Ta	able 5: Gallo	ns Per Capita Pe	er Day (GPCD)	
Basel Fm SB X	ine Year 7-7 Table 3	Service Area Population <i>Fm SB X7-7</i> <i>Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7</i> Table 4	Daily Per Capita Water Use (GPCD)
10 to 15 Ye	ar Baseline G	PCD		
Year 1	1995	46,845	15,220	290
Year 2	1996	50,343	19,322	343
Year 3	1997	51,710	19,725	341
Year 4	1998	56,913	17,992	282
Year 5	1999	70,252	22,965	292
Year 6	2000	73,421	25,591	311
Year 7	2001	80,227	26,969	300
Year 8	2002	89,738	28,213	281
Year 9	2003	101,372	28,582	252
Year 10	2004	112,711	33,240	263
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	
10-15 Year	Average Base	eline GPCD		295
5 Year Bas	eline GPCD			
Basel Fm SB X	ine Year 7-7 Table 3	Service Area Population <i>Fm SB X7-7</i> <i>Table 3</i>	Gross Water Use Fm SB X7-7 Table 4	Daily Per Capita Water Use
Year 1	2003	101,372	28,582	252
Year 2	2004	112,711	33,240	263
Year 3	2005	126,204	35,773	253
Year 4	2006	136,383	35,345	231
Year 5	2007	141,991	38,222	240
5 Year Ave	rage Baseline	GPCD		248
2015 Com	pliance Year G	iPCD		
2	015	165,895	28,404	153
NOTES:				

SB X7-7 Table 6 : Gallons per Ca Summary From Table SB X7-7 Tab	ipita per Day <i>le 5</i>
10-15 Year Baseline GPCD	295
5 Year Baseline GPCD	248
2015 Compliance Year GPCD	153
NOTES:	

SB X7 Select	SB X7-7 Table 7: 2020 Target Method Select Only One						
Tar	get Method	Supporting Documentation					
\checkmark	Method 1	SB X7-7 Table 7A					
	Method 2	SB X7-7 Tables 7B, 7C, and 7D Contact DWR for these tables					
	Method 3	SB X7-7 Table 7-E					
	Method 4	Method 4 Calculator					
NOTES	::						

SB X7-7 Table 7-A: Target Method 20% Reduction	1
10-15 Year Baseline GPCD	2020 Target GPCD
295	236
NOTES:	

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target							
5 Year Baseline GPCD From SB X7-7 Table 5	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target				
248	236	244	236				
¹ Maximum 2020 Target is S Target is calculated based o corresponding tables for ag	95% of the 5 Year Base n the selected Target ency's calculated targ	eline GPCD Method, see SB X7-7 Table 2 et.	² 2020 7 and				
NOTES: Used Method	1.						

SB X7-7 Table 8: 2015 Interim Target GPCD							
Confirmed 2020 Target <i>Fm SB X7-7</i> Table 7-F	10-15 year Baseline GPCD <i>Fm SB X7-7</i> Table 5	2015 Interim Target GPCD					
236	295	265					
NOTES:							

SB X7-7 Table	9: 2015 Comp	oliance						
			Optional .		Did Supplier			
		Enter "0	" if Adjustment N	ot Used			2015 GPCD	
Actual 2015 GPCD	2015 Interim Target GPCD	Extraordinary Events	Weather Normalization	Economic Adjustment	TOTAL Adjustments	Adjusted 2015 GPCD	(Adjusted if applicable)	Targeted Reduction for 2015?
153	265	From Methodology 8 (Optional)	From Methodology 8 (Optional)	From Methodology 8 (Optional)	-	153	153	YES
NOTES:								

Appendix F: 2013 and 2014 Best Management Practices Annual Reports to the California Urban Water Conservation Council

Welcome Dan Gwaltney | Locout Role:Editor

Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms. Base Year Data Reports Reporting Unit

eporting Year	P	otable Water Sources		Online Hel
< 2013 > > /ater Sources and Usage	Form Comple	ete Q Su 11	abmited to CU\ 1/23/2015 7:0	WCC 8:44 AM
otable Water Sources	Form Status: S	Submitted		
on Potable Water Sources	Service Area Populat	ion: 10 536	Ci	opy from previous year Save
otable Water Uses	Potable			
on Potable Water Uses	Potable Water			
MP 1	Imported	AF/Year	Water Supply Type	Water Supply Description
Retail Operations Practices		· · · · · · · · · · · · · · · · · · ·		
2 Retail Water Loss Control		No dat	a to display	
3 Retail Metering with ommodity	Local Waterhet	AEN/are	Mintee Cuerky Trees	Nicho Russia Resultation
4 Retail Conservation Pricing		Ar/ tear 5 4 37 Bi	Water Supply Type	Water Supply Description
40 3		Total: 5 427 B		W0IS
1 Public Information ograms 2 School Education MP 3 - Residential Traditional / RexTrack MP 4 - CTI Traditional / RexTrack MP 5 - Landscape Traditional / FlexTrack PCD				
	Back to Top			

Page 1 of 1

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eporting Year		Non Potable Water S	ources	Online He
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nable water Sources	Population: 10,538	3	Co	py from previous year Save
table Water Lices	Non Potable Water			
n Potable Water Lises				
(P 1	Imported	AF/Year	Water Supply Type	Water Supply Description
Retail Operations Practices			No data to display	
Retail Water Loss Control			· ·	· · · · · · · · · · · · · · · · · · ·
Retail Metering with mmodity	Local Watershed	AF/Year	Water Supply Type	Water Supply Description
Retail Conservation Pricing			No data to display	
IP 2			<u>.</u>	•
Public Information grams	· · · · · · · · · · · · · · · · · · ·		Total: 0.00	
School Education				
IP 3 - Residential			4	
raditional / RexTrack				
P 4 - CII				
raditional / FlexTrack				
P 5 - Landscape				
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porting Year			-otable water U	923			Online He	
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able Water Sources	Form Sta	Form Status: Submitted						
table Water Uses	Customer Type	Metered Accounts	Metered Water Delivered AF/Yea	Un- Metered #	Un - metered Water Delivered AF/Year	Description		
P1	Single-Family	19	8 59.0	Accounts	9 987.00	Unmetere	d estimated based on	
Retail Operations Practices	Multi-Family	1	7 24.0	0 1	6 27.00	Unmetere	d connection usage d estimated based on	
Retail Water Loss Control Retail Metering with	Commercial	20	4 366.0	10 24	4 525.00	Unmetere	d connection usage	
modity	Industrial		6 250.0	0	0 0.00	Unmetere	d estimated based on	
2	Institutional	1	7 85.0	0 1	0 60.00	Unmetere	d estimated based on	
Public Information rams	Dedicated Irrigation	41	0 181.0	0	2 11.00	Unmetere	d estimated based on I connection usage	
School Education	Other	(0.0	0 2	21.00	Unmetere meteret	d estimated based on I connection usage	
3 - Residential			Total : 965.0	0	Total : 1,631.00			
ditional / FlexTrack	Un-Billed						· · · · · · · · · · · · · · · · · · ·	
94 - CII aditional / FlexTrack	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Un- Metered # Accounts	Un - metered Water Delivered AF/Year		Description	
S - Landscape	Other	0				69.00	from Water Audit	
litional / FlexTrack			Total : 0.00		Total : 69.00			
E.								
<u>w / Submit</u>								
	Back to Top							

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 Arden Park Vista
 Role Editor

 Signatory:Sacramento County Water Agency
 Role Editor

 RU Type:Retail

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Reporting Year	Non Potable Water Uses Online Hel							
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Potable Water Uses	Customer Type	Metered	Metered Water Delivered AF/Year	Un- Metered	Un - metered Water	Description		
von Potable Water Uses				Accounts	beiweren Ar/tear	1		
I Retail Operations Practices				No data	a to display			
.2 Retail Water Loss Control			Total : 0.0	0	Total : 0.00			
3 Retail Metering with	Un-Billed							
.4 Retall Conservation Pricing	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Un- Metered #	Un - metered Water Delivered AF/Year		Description	
SMP 2				Accounts				
1 Public Information rograms				No data	to display			
2 School Education			Total : 0.00			Total : 0.00		
IMP 3 - Residential								
Traditional / FlexTrack								
IMP 4 - CII								
Traditional / FlexTrack								
MP 5 - Landscape								
Traditional / FlexTrack								
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eview / Submit								

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log Detable Water Lices	Conservation Coordinator				
ION POLIDIC WALE USES	Conservation Coordinator	Yes	No N/A		ON TRACK
IMP 1					
.1 Retail Operations Practices	Contact Information				
2 Retail Water Loss Control	Fire	st Name	Dan	Hite	
3 Retail Metering with	La	st Name	Gwaltney		
ommodity		Title	Associate Civil Er	ngineer	
.4 Retail Conservation Pricing		Email	gwaltneyd@sacco	ounty net	
IMP 2					
1 Public Information rograms	Water Waste Prevention An agency MUST do at least on encouraged to do them all whe	ie or ma en possi	re of the following ble.	g six strategles; although water age	ncies are
2 School Education	College to Describe (upload on our	- Jaho ana			
IMP 3 - Residential	by your agency to meet the water wa	ste preve	electronic link) the of ention requirements (of this BMP.	ON TRACK
Traditional / FlexTrack	Upload File				
IMP 4 - CII					
Traditional / FiexTrack	NA				
MP 5 - Landscape	URL http://www.countycounsel.sad	county	net/Documer		
Traditional / FleyTrack	Describe Ordinance or Terms			1	32 characters
PCD	ites of the Management of the			NO PO TOTAL	enaining
	1 A 1 3 *			ullifier international in the	
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			a formula		
eview /.Submit	Option 8: Describe (upload or pri adopted by your local jurisdiction(s) or Upload File	ovide an r regulati	electronic link) any v ory agencies within y	water waste prevention ordinances or rec rour service area.	uirements

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Beneting Year	Provisional Coverage Indication ON TRAC BMP 1.2 Water Loss Control Online Hel Submited to CUWCC 11/23/2015 7:08:44 AM									
Water Sources and Usage	Form Complete 🦉 Form Status: Submitted									
Potable Water Sources										
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Non-Potable Water Sources	AWWA Water Audit									
otable Water Uses	Anency to complete a water surlit and	balanca	ucine the	A166416 cof	hartam	Marc	. Mar	. MAR	ON TO	4.54
Ion Potable Water Uses	Agency w complete a water audit and	Devance	using uit	: AWWA SUI	LWORE	16	- ND	NVA	UN TH	CACK
IMP 1	Upload Worksheets (AWWA Water	Audit) 🛰	<u> </u>							
1 Retail Operations Practices									ON TR	ACK
.2 Ietail Water Loss Control	Uploaded filename: WaterAudit	2013 - n	onZone	40.xis						
.3 Retail Metering with Commodity	Water Audit Validity Score 78									
.4 Retail Conservation Pricing	Agency Completed Training In The	AWWA W	ater Aud	it Method		Yes	No	N/A	ON T	RACK
IMP 2										-
1 Public Information rograms	Agency Completed Training In The	Compone	nt Analy:	sis Process		Yes	No	N/A	ON TR	RACK
.2 School Education	Completed/Updated the Component Analysis (at least every 4 years) (Effective from 2013)						No	N/A	ON TR	ACK
MP 3 - Residential	Component Analysis Completed/Updai	ted Date:	06/250	2012	Rama	t:mm/dtl/yy	N			
Traditional / FlexTrack	Water Loss Reviewants			-						
MP 4 - CII	water coss performance									
Traditional / FlexTrack	Agency repaired all reported leaks 8 effective	breaks t	o the exi	ient cost	Yes	No	N/A		ON TRA	KCK
MP 5 - Landscape	Recording Keeping Requirement	ts Begin	ning In	Year 2			_			
Traditional / FlexTrack	Deter General and Annual A	ra keepi	ng systi	em for the	following?					
PCD	Date/ time Leak Reported	Yes	NO	N/A	Le	ak Locati	DR	Yes	No	N/A
200	Type of Leaking Pipe Segment or Fitting	Yes	No	N/A	Leak Ru From Repo	inning Tir rt to Reo	ne air	Yes	No	N/A
A.M.	Leak Volume Estimate :	Yes	No	N/A	Cos	t of Rena	ir:	Vec	No	N/A
eview / Submit	Do you have an infrastructure rehabilitation and renewal	Yes	No	N/A		e an rouged		.0	110	(1) 25
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Potable Water Sources	\sim								
ble Water Licer	Implementai	bon							
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Potable Water Uses	Does your ag	ency have an	y unmetered	service connectio	ins?	Ye	× No	N/A	
1					_			i di li	
Retail Operations Practices	If YES, ha	s your agency	completed a	meter retrofit pla	an?	Ye	es No	N/A	
Retail Water Loss Control	during rep	mber of previ orting year:	ously unmete	red accounts fitte	d with meters	6			
Retail Metering with modity								ON	TRACK
Retail Conservation Pricing	Are all new s	ervice connec	tions being m	etered?			Ye	s No	N/A
2	Ann all anns a		-	11 - 4 1	-				
ublic Information ams	Are do new s	ervice connec	uons being bi	nen kommerikan	y r		Υ¢	s No	N/A
chool Education								ON	TRACK
KIRON EQUESION			مقتصيط بنم التماض ال						
3 - Residential	Has your age	ncy complete	and submit	ed electronically	to the Coundi	a written plai	1, Ve	. he	
3 • Residential	Has your age policy or prog	ncy complete ram to test, r	epair and rep	lace meters?	to the Council	a written plai	h, Ye	s No	N/A
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Reporting Year		BMP 1.4 Retail	Conservation Pricing	Provisional Co)	verage Indication	NOT ON TRAC Online He
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nable water uses	Enter the Water	Rate Structures t	that are assigned to the	majority of you	r customers, by cust	omer class.
IP 1	Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Meter/Service	Customer (Fixed) Charges	New
Retail Operations Practices			No data to	display		
Retail Water Loss Control			\$0.0	0	\$0.00	
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Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	BMP 2.1 Public	Information Pro	Provisional Coverage Inc grams	dication ON 1 Online	Help
< 2013 ~ >		Submited 11/23/201	l to CUWCC 5 7:08:44 AM		
Water Sources and Usage	🖓 Form Complete 🍳	For	n Status: Submitted		
otable Water Sources					
Ion Potable Water Sources					
otable Water Uses	Are there one or more wholesale ag public outreach which can be counte agency comply with the BMP?	encies performing ed to help your	Yes No	N/A	
on Potable Water Uses	If "Yes" please select council wholesale	agendes;	Please provide the name of agency	, contact name	
MP 1			and email address If not A Council G 144 characters remaining	roup 1 member.	
1 Retail Operations Practices		<u> </u>	UN ARA	~	Ì.
2 Retail Water Loss Control				0	
3 Retail Metering with	Report a minimum of four water conserv	ation related contact	s your agency had with the public		
Junitodity			 A second sec second second sec		
Retail Conservation Pricing	during the year.			1-10-00-0	
4 Retail Conservation Pricing	during the year,			ON TRAC	ж
4 Retail Conservation Pricing MP 2 1 Public Information rograms	during the year, Public Information Programs List Did at least one contact take place duri	ng each quarter of th	e reporting year? ✓	ON TRAC	ж
4 Retail Conservation Pricing MP 2 1 Public Information rograms 2 School Education	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts Public Informati	ng each quarter of th on Programs	e reporting year? 🔍	ON TRAC	×
Retail Conservation Pricing P 2 Public Information rograms School Education MP 3 - Residential	during the year. Public Information Programs List Did at least one contact take place duri Number of Public Contacts 16 Email Messages	ng each quarter of th on Programs	e reporting year?	ON TRAC	×
4 Retail Conservation Pricing MP 2 1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack	during the year, Public Information Programs List Did at least one contact take place durin Number of Public Contacts 16 Email Messages 3 General water cor	ng each quarter of th on Programs iservation information	e reporting year? 🗸	ON TRAC	×
4 Retail Conservation Pricing 4 P 2 1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts 16 Email Messages 3 General water cor 19	ng each quarter of th on Programs iservation information	e reporting year? 🗸	ON TRAC	X
4 Retail Conservation Pricing MP 2 1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack	during the year. Public Information Programs List Did at least one contact take place duri Number of Public Contacts 16 Email Messages 3 General water cor 19 Contact the Media	ng each quarter of th on Programs Iservation information	e reporting year?	ON TRAC	X
A Retail Conservation Pricing A Retail Conservation Pricing A P 2 1 Public Information orgrams 2 School Education AP 3 - Residential Traditional / FlexTrack AP 4 - CII Traditional / FlexTrack AP 5 - Landscape	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts Public Informati 16 Email Messages 3 General water cor 19 Contact with the Media	ng each quarter of th on Programs Iservation information	e reporting year?	ON TRAC	X /A
A Retail Conservation Pricing A Retail Conservation Pricing A P 2 A Public Information ograms C School Education A P 3 - Residential Traditional / FlexTrack A P 4 - CII Fraditional / FlexTrack A P 5 - Landscape Fraditional / FlexTrack	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts Public Informati 16 Email Messages 3 General water cor 19 Contact with the Media	ng each quarter of th on Programs Iservation information	e reporting year?	ON TRAC	//
A Retail Conservation Pricing A Retail Conservation Pricing A P 2 A Public Information ograms C School Education A P 3 - Residential Traditional / FlexTrack A P 4 - CII Traditional / FlexTrack A P 5 - Landscape A P 5 - L	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts Public Information 16 Email Messages 3 General water cor 19 Contact with the Media Media Contacts List Media Contacts List	ng each quarter of th on Programs iservation information	e reporting year?	ON TRAC	X //
A Retail Conservation Pricing A Retail Conservation Pricing A P 2 Dublic Information ograms C School Education AP 3 - Residential Fraditional / FlexTrack AP 4 - CII Fraditional / FlexTrack AP 5 - Landscape Fraditional / FlexTrack CD	during the year. Public Information Programs List Did at least one contact take place during Number of Public Contacts Public Information 16 Email Messages 3 General water corting 19 Contact with the Media Media Contacts List Did at least one contact take place during	ng each quarter of th on Programs Iservation information	e reporting year?	ON TRAC	X //A
A Retail Conservation Pricing A Retail Conservation Pricing A P 2 D Public Information ograms C School Education A P 3 - Residential Fraditional / FlexTrack A P 4 - CII Fraditional / FlexTrack A P 5 - Landscape Fraditional / FlexTrack C D C D	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts Public Informati 16 Email Messages 3 General water cor 19 If Media Contacts List Did at least one contact take place durin Number of Media Contacts Media Contacts	ng each quarter of th on Programs iservation information iservation information g each quarter of the Type	e reporting year?	(es No N CN TRACK	X //
4 Retail Conservation Pricing 4 Retail Conservation Pricing 4 P 2 1 Public Information 5 Chool Education 4 P 3 - Residential 1 Praditional / FlexTrack 4 P 4 - CII 1 Fraditional / FlexTrack 4 P 5 - Landscape 1 Fraditional / FlexTrack 4 CD CD 2 Submit	during the year. Public Information Programs List Did at least one contact take place during Number of Public Contacts Public Information 16 Email Messages 3 General water cortext 19 Contact with the Media Media Contacts List Did at least one contact take place durint Number of Media Contacts Media Contacts 1 2 Newspaper contact	ng each quarter of th on Programs iservation information iservation information g each quarter of the Type ts	e reporting year?	ON TRAC	
A Retail Conservation Pricing HP 2 A Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCO ND	during the year. Public Information Programs List Did at least one contact take place durin Number of Public Contacts Public Information 16 Email Messages 3 General water cor 19 Image: Second S	ng each quarter of the on Programs iservation information iservation information geach quarter of the Type ts	e reporting year?	ON TRAC	//

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Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	BMP 2.2 School Education Programs	Provisional Coverage Indicati s, Retail Agencies	ON TRAC Online Hel
< 2013 ~ >	Submited 11/23/201	i to CUWCC 5 7:08:44 AM	
Vater Sources and Usage	🗸 Form Complete 🍳 🛛 🛛 Form	m Status: Submitted	
otable Water Sources Ion Potable Water Sources otable Water Uses	Does your agency implement a school education Are there one or more wholesale agencies	program? Yes No Please provide the name of Agency, contar	N/A
MP 1	performing school education programs which can be counted to help your agency comply with the BMP?	and email address if not CUWCC Group 1 r	nembers.
1 Retail Operations Practices 2 Retail Water Loss Control			<
3 Retail Metering with mmodity	Materials meet state education framework requirements	Description: 6 chara	ON TRACK
Retail Conservation Pricing	Service and and and and an interest requirements.		uers remaining
1 Public Information ograms 2 School Education			ON TRACK
Traditional / FlexTrack	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	54 characters
AP 4 - CII Fraditional / FlexTrack AP 5 - Landscape		[24] S.	
raditional / FlexTrack	Number of student reached.	0	
0	Materials distributed to 7-12 students. (optional)	Description of materials distributed to 7- 12 students	54 characters remaining
view / Submit			<u></u>
		hand the second se	

Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail Welcome Dan Gwaltney i Locout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	P	otable Water Sources		Online Help
< 2014 > > Water Sources and Usage Potable Water Sources Von Potable Water Sources Potable Water Uses	Form Comple Form Status: S Service Area Populat Potable	ete 🛛	Submited to CU 11/23/2015 7:0	WCC 9:22 AM
ion Potable Water Uses	Potable Water			
SMP 1	Imported	AF/Year	Water Supply Type	Water Supply Description
1 Retail Operations Practices			No data to display	
.2 Retail Water Loss Control			THE DATA TO DISPREY	
3 Retail Metering with				
A Retail Conservation Pricing	Local Watershed	AF/Year	Water Supply Type	Water Supply Description
MP 2		Total: «	.710.00	TTCIS
.1 Public Information rograms				
Traditional / FlexTrack				
MP 4 - CII				
Traditional / FlexTrack				
MP 5 - Landscape				
Traditional / FlexTrack				
PCD				
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eview / Submit				

 Reporting Unit:Sacramento County Water Agency Welcome Dan Gwaltney | Logout

 Arden Park Vista
 Role:Editor

 Signatory:Sacramento County Water Agency
 Role:Editor

 RU Type:Retail
 Role:Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	1	ion Potable Water So	urces	Online Help
< 2014 > > Water Sources and Usage Potable Water Sources Non Potable Water Sources Notable Water Uses	Form Compl Form Status: 5 Service Area Population: 10.536 Non Potable Water	ete 🤷 Submitted	Submited to CUV 11/23/2015 7:0	NCC 9:22 AM
on Potable Water Uses	Imported	AF/Year	Water Supply Type	Water Supply Description
4P 1				
1 Retail Operations Practices			No data to display	
2 Retail Water Loss Control				
3 Retail Metering with orrmodity	Local Watershed	AF/Year	Water Supply Type	Water Supply Description
4 Retail Conservation Pricing			No data to display	
MP 2				
1 Public Information ograms			0121: 0.00	
2 School Education				
4P 3 - Residential				
Traditional / RexTrack				
4P 4 - CII				
Fraditional / FlexTrack				
4P 5 - Landscape				
Fraditional / FlexTrack				
PCD				
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zview / Submit				
	Back to Too			

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Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

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Home Annual Input Forms Base Year Data Reports Reporting Unit

< 2014 > > ater Sources and Usage table Water Sources and Usage table Water Sources	Form C	Complet	Submited				the second se
	Billed	itus: Su	••• 11/23/2 AM Ibmitted	015 7:0	VCC 9:22	Copy from pre	vious year Save
able Water Uses Potable Water Uses	Customer Type	Metered Accounts	Metered Water Delivered AF/Yea	Un- Metered Ir # Accounts	Un - metered Water Delivered AF/Year	Description	
P 1	Single-Family	19	9 67.0	0 2,74	7 1,116.00	Unmetere	d estimated based on
Retail Operations Practices	Multi-Family	13	7 22.0	00 1	6 24.00	Unmetere	d estimated based on
Retail Water Loss Control	Commercial	205	5 420.0	0 24	6 605.00	Unmetere	d estimated based on
nmodity	Industrial	ŧ	5 247.0	00	0.00	Unmetere	d estimated based on
Retail Conservation Pricing	Institutional	17	7 78.0	10 1	0 55.00	Unmetere	d estimated based on
Public Information	Dedicated	39	151.0	0	2 9.00	Unmetere	d estimated based on
ichool Education	Other	C) 0.0	0 2	1 20.00	Unmeterer	d estimated based on
3 - Residential			Total : 985.0	0	Total : 1,829.00	meteret	connection usage
ditional / FlexTrack	Un-Billed						
94 - CII Iditional / FlexTrack	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Un- Metered # Accounts	Un - metered Water Delivered AF/Year		Description
5 - Landscape	Other	0	0.00			58.00	from Water Audit
ditional / FlexTrack			Total : 0.00		4-	Total : 58.00	
D							
ew / Submit							

Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail Welcome Dan Gwaltney | Looput Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

enortion Year		No	n Potable Water	Uses			Online Hel
< 2014 ~ > ater Sources and Usage	୍ଦ Form ଭ	Complet	e Submite 11/23/ AM	ed to C 2015 7	UWCC :09:22	Copy from pre	vious year Save
able Water Sources	Form St	atus: Su	bmitted				
able Water Uses	Customer	Metered	Metered Water	Un- Metered	Un -	1	
n Potable Water Uses	Туре	Accounts	Delivered AF/Year	# Accounts	Delivered AF/Year	Description	
P 1				No data	a to display	+	
Retail Operations Practices							
Retail Water Loss Control			Total : 0.0	Ó	Tota! : 0.00		
Retail Metering with woodity				Un-			
Retail Conservation Pricing	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Metered #	Un - metered Water Delivered AF/Year		Description
P 2				Accounts	-		
Public Information trams				No data	a to display		
School Education			Total : 0.00			Total : 0.00	
93 - Residential					19-19-12-12-12-12-12-12-12-12-12-12-12-12-12-	arrent (Feller 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
aditional / FlexTrack							
94 - CII							
aditional / FlexTrack							
5 - Landscape							
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iew / Submit							

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Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

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Denerties Vers	BMP 1.1 Operation	Provisional Coverage ns Practices	Indication ON TRAC Online Hel
< 2014 v >	1	Submited to CUWCC 1/23/2015 7:09:22 AM	
Water Sources and Usage	Form Complete 🭳	Form Status: Submitted	
Potable Water Sources		X	
Yon Britable Water Courses			
Non Politice Water Jources			
otable water uses	Conservation Coordinator		
Ion Potable Water Uses	Conservation Coordinator	No N/A	ON TRACK
IMP 1			CHERRICH
.1	Contact Information		
2 Ostali Mistar Lass Castral	First Name	Dan	
.2 Ketali water Loss Control	Last Name	Gwatney	
.3 Retail Metering with commodity	Title	Associate Civil Engineer	
4 Retail Conservation Pricing	Phone	916-674-3910	
IMP 2	Lindi	Russeeka Salarana tik tiet	
1 Dublic Information	Water Waste Prevention		
rograms	An agency MUST do at least one or m encouraged to do them all when post	ore of the following six strategies; although w sible.	ater agencies are
2 School Education			
MP 3 - Residential	Option A: Describe (upload or provide an by your agency to meet the water waste pre-	electronic link) the ordinances or terms of service a rention requirements of this BMP.	dopted ON TRACK
Traditional / FlexTrack	Upload File		
MP 4 - CTT			
	NA		
Traduonal / nextrack			
MP 5 - Landscape	URL http://www.countycounsel.saccounty	net/Documer	122 observations
Traditional / FlexTrack	Describe Ordinance or Terms		remaining
PCD		A CONTRACT OF MANY	
PCD			
		¥	
<u>Review / Submit</u>	Option B: Describe (upload or provide a adopted by your local jurisdiction(s) or regula Upload File	n electronic link) any water waste prevention ordinar tory agencies within your service area.	ces or requirements

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Reporting Unit:Sacramento County Water Agency – Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

leporting Year	BMP 1.2 Wa	ter Los:	s Contr	ol	Provisiona	l Cove	rage I	ndicatio	o n	ON TRAC line Hel
< 2014 ~ >		S 11/	ubmi 23/2	ted to 015 7:	CUWCC 09:22 AI	И				
Vater Sources and Usage	🛛 🖓 Form Complete 🍳 I	Form 3	Statu	is: Sub	mitted					
otable Water Sources										
on Potable Water Sources										-
otable Water Uses	AWWA Water Audit									
na Betable Water Lices	Agency to complete a water audit and	balance	using the	e AWWA so	ftware	Yes	No	N/A	ON T	RACK
Shi Potable Water Uses	Linkad Worksheets (AMMA Mater	Audit @	,							
MP 1	Opload Worksheets (AWWA Water	AUUIL)								
1 Retail Operations Practices									ON T	RACK
2 atail Water Lore Control	Uploaded filename: WaterAudit	<u> 2014 - n</u>	onZone	40,xis						
2 Patril Mater Coss Control	Water Audit Validity Score 78									
3 Retail Metering with ommodity										
4 Retail Conservation Pricing	Agency Completed Training In The	AWWA W	ater Auc	lit Method		Yes	No	N/A	ON	TRACK
MP 2										
1 Public Information	Agency Completed Training In The	Compone	nt Analy	sis Process		Yes	No	N/A	ON	TRACK
ograms										
2 School Education	Completed/Updated the Componen (Effective from 2013)	t Analysis	(at least	t every 4 ye	ars)	Yes	No	N/A	ON	RACK
4P 3 - Residential	Component Analysis Completed/Upda	ted Date:	06/25/	2012	forme	:mm/dd/yy	w			
Traditional / FlexTrack	Water Loce Devicements									
MP 4 - CII	Water Luss Performance									
Traditional / FlexTrack	Agency repaired all reported leaks & effective	a breaks t	the ext	tent cost	Yes	No	N/A		ON TR	ACK
MP 5 - Landscape	Recording Keeping Requirement	ts Begin	ning in	Year 2						
Traditional / FlexTrack	Lices your agency maintain a reco	rd keepi	ng systi	em for the	following?			S		1
CD	Date/Time Leak Reported	Yes	No	N/A	Lei	ak Locati	on	Yes	No	N/A
0	Type of Leaking Pipe Segment or Fitting	Yes	No	N/A	Leak Ru: From Repo	nning Tir t to Ren	ne air	Yes	No	N/A
	Leak Volume Estimate	Yes	No	N/A	Cost	of Rena	ir:	Yes	No	N/A
wiew / Submit	Do you have an infrastructure rehabilitation and renewal	Yes	No	N/A	0.03			; 🖵	110	H/P

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Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

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		BMP 1.3 I	Hetering w	ith Commodi	Provisio y Rates	nal Coveraç	je Indicat	ion N(<mark>)T ON TRA</mark> Online He
orting Year				Submite	to CIW				
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er Sources and Usage	Form C	omplete	Q	Fo	orm Stati	u <mark>s: Sub</mark> n	nitted		
le Water Sources									
Potable Water Sources	Implementat	tion							
le Water Uses	ampiciticitics							1	
otable Water Uses	Dana umun on							NUT ON	IRALK
1	Does your ag	ency nave an	iy unmetered	service connecto	ansr	Ye	s No	N/A	
etail Operations Practices	If YES, ha	s your agency	completed a	meter retrofit pl	an?	Ye	s No	R/A	
etail Water Loss Control	If YES, nu during rep	mber of previ orting year:	ously unmete	red accounts fitte	ed with meters	0			
etail Metering with nodity								ON 1	RACK
etail Conservation Pricing	Are all new s	ervice connec	tions being m	etered?			Yes	i No	N/A
2	Are all new s	ervice connec	tions being bi	illed volumetrical	v7		Ver	: No	11/4
blic Information							16		142
hool Education			a					ON T	RACK
3 - Residential	nas your age	ram to test u	o and submin renair and rec	leo electronically	to the Council	a written plan	Yes	No	N/A
litional / FlexTrack	hourt or broa		opon one rep		4				<u> </u>
\$ - CII									
itional / RexTrack	NA Diana Elli O	ut The Cette							
5 - Landscape	Freese Fill Q	INC THE POINT	i mang matro	1	}	64	1	Vienne.	
itional / FlexTrack	Account Time	# Materari	# Metered	# Metered Accounts	Billing	#	# Of Meter		
2	Account type	Accounts	Accounts Read	Billed by Volume	Per Year	Esumated Bills/Year	Readings per Year		
	Cinela Enerth	100.55	100.00	100.00	Di		ليتسمح م		
	Multi-Family	17.00	17.00	199.00	Bi-monthly	6.00	6.00		P.N.
w / Submit	Commercial	205.00	205.00	205.00	Bi-monthly	6.00	6.00		
	Industrial	6.00	6.00	6.00	Bi-monthly	6.00	6.00		
· · · · · · · · · · · · · · · · · · ·	Institutional	17.00	17.00	17.00	Bi-monthly	6.00	6.00		

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Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

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eporting Year		BMP 1.4 Retall	Conservation Pricing	Provisional Coverage Indicati	Online He
< 2014 ~ >			Submited to 11/23/2015 7	D CUWCC 7:09:22 AM	
ater Sources and Usage table Water Sources	✓ Form Co	mplete 🍳	Form	Status: Submitted	
n Potable Water Sources able Water Uses	A. Implementa	tion (Water Rate	: Structure)		
1 Potable Water Uses	Enter the Water	Rate Structures	that are assigned to the	majority of your customers, by	customer class.
P 1	Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Customer Meter/Service (Fixed) Charges	New
Retail Operations Practices			No data to i	display	
Retail Water Loss Control			\$0.00) ş	0.00
modify			the second		THE REPORT OF A DESCRIPTION OF A DESCRIP
in the second					
Retail Conservation	B. Implemental	tion Options (Co	mpliance with Conserv	vation Pricing Options (Water))
Retail Conservation ing	B. Implemental Please Select an C	tion Options (Co Option	mpliance with Conser	vation Pricing Options (Water))
Retail Conservation sing P 2 Public Information rams	B. Implemental Please Select an C Option 1: An Use 3 years av	tion Options (Co Option nual Revenue As Re erage instead of mo	ported Option 2: Can st recent year	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation ing P 2 Public Information prams School Education	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr	ported Option 2: Can st recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation drig P 2 Public Information grams School Education P 3 - Residential	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr	mpliance with Consern ported Option 2: Can st recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation ing 2 Public Information rams School Education 2 3 - Residential additional / FlexTrack	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr	mpliance with Consern ported Option 2: Can ist recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation ing 2 Public Information rams School Education 2 3 - Residential additional / FlexTrack 2 4 - CII	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Ascorcia	mpliance with Consern ported Option 2: Can st recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation ing P 2 Public Information pars School Education P 3 - Residential additional / FlexTrack P 4 - CII additional / FlexTrack	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water &	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Associa	mpliance with Consern ported Option 2: Can st recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I aplementation)) Design Model
Retail Conservation ing 2 Public Information prams School Education 2 3 - Residential additional / FlexTrack 2 4 - CII additional / FlexTrack 2 5 - Landscape	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water & C. Canadian Water Water	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Associa	mpliance with Consern ported Option 2: Can ist recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation cing P 2 Public Information prams School Education P 3 - Residential aditional / FlexTrack P 4 - CII aditional / FlexTrack P 5 - Landscape aditional / FlexTrack	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water & C. Canadian Water	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Associa	mpliance with Consern ported Option 2: Can st recent year eadsheet here.	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation Ing P 2 Public Information prams School Education P 3 - Residential additional / FlexTrack P 4 - CII additional / FlexTrack P 5 - Landscape additional / FlexTrack	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water & C. Canadian Water	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Associa	mpliance with Consern ported Option 2: Can st recent year eadsheet here. tion <u>Bate Design Model Im</u> er Association	vation Pricing Options (Water adian Water Wastewater Assn Rate I)) Design Model
Retail Conservation cing P 2 Public Information grams School Education P 3 - Residential additional / FlexTrack P 4 - CII additional / FlexTrack P 5 - Landscape additional / FlexTrack	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water & C. Canadian Water & Rate Structure Option	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Associa Uter & Wastewater Customer Class Name	mpliance with Consern ported Option 2: Can st recent year eadsheet here. tion <u>Bate Design Model Im</u> er Association Total Revenue Comm Charges	adian Water Wastewater Assn Rate I appementation nodity Total Revenue Customer (Fixed) Charges)) Design Model Meter/Service
Retail Conservation Cing P 2 Public Information grams School Education P 3 - Residential aditional / FlexTrack P 4 - CII aditional / FlexTrack P 5 - Landscape aditional / FlexTrack D D	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water & C. Canadian Water & C. Canadian Water & Rate Structure Option	tion Options (Co Option mual Revenue As Re erage instead of mo d, please upload spr Wastewater Associa Uter & Wastewater Customer Class Name	mpliance with Consern ported Option 2: Can st recent year eadsheet here. ttion <u>Bate Design Model Im</u> er Association Total Revenue Comm Charges No data to d	adian Water Wastewater Assn Rate I aplementation nodity Total Revenue Customer (Fixed) Charges)) Design Model Meter/Service

Reporting Unit:Sacramento County Water Agency -Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail Welcome Dan Gwaltney | Logout Role Editor

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Reporting Year		BMP 2.1 Public Information Pro	Provisional Coverage Indicat grams	ion ON TRAC Online He
< 2014 > >		Submited 11/23/201	d to CUWCC .5 7:09:22 AM	
Water Sources and Usage	Form Corr	nolete 🧟 🛛 For	m Status: Submitted	
otable Water Sources				
on Potable Water Sources				
table Water Uses	Are there one or n	nore wholesale agencies performing		
on Potable Water Uses	public outreach with agency comply with	hich can be counted to help your the the BMP?	Yes No	N/A
MP 1	If "Yes" please sele	ct council wholesale agencies;	Please provide the name of agency , cont	tact name
			and email address if not A Council Group 144 characters remaining	1 member.
1 Retail Operations Practices			\$48000 is a \$10000	A
2 Retail Water Loss Control				\checkmark
3 Retail Metering with				
4 Petail Concountion Discon	Report a minimum of during the year.	f four water conservation related contact	ts your agency had with the public	
w Ketali Collise vation Phong				ON TRACK
MP Z				
				QUI TRACK
1 Public Information	Public Informatio	on Programs List		UTINCE
1 Public Information ograms	Public Information	on Programs List tact take place during each quarter of th	e reporting year? 😼	UII IMACK
1 Public Information rograms 2 School Education	Public Informatie Did at least one con Number of Public Contacts	on Programs List tact take place during each quarter of th Public Information Programs	e reporting year? 💚	
1 Public Information ograms 2 School Education MP 3 - Residential	Public Information Did at least one con Number of Public Contacts	on Programs List Itact take place during each quarter of th Public Information Programs General water conservation information	ne reporting year? 😔	OF TARK
1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack	Public Information Did at least one con Number of Public Contacts 14 3	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages	ne reporting year? 😺	
1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII	Public Information Did at least one con Number of Public Contacts 14 3	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages	ne reporting year? 🔽	
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1 Public Information ograms 2 School Education 4P 3 - Residential Fraditional / FlexTrack 4P 4 - CII Fraditional / FlexTrack 4P 5 - Landscape	Public Information Did at least one con Number of Public Contacts 14 3 17 Contact with the	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages	ne reporting year? 😒 n Yes	No N/A
1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Fraditional / FlexTrack AP 5 - Landscape Fraditional / FlexTrack	Public Information Did at least one con Number of Public Contacts 14 3 17 Contact with the	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages	ne reporting year? 🤝 n Yes	
1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack	Public Informatia Did at least one con Number of Public Contacts 14 3 17 Contact with the Media Contacts L	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages Media Jst	ne reporting year? 😒 n Yes	NO N/A ON TRACK
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1 Public Information ograms 2 School Education 4P 3 - Residential fraditional / FlexTrack 4P 4 - CII fraditional / FlexTrack 4P 5 - Landscape Fraditional / FlexTrack CD CD view / Submit	Public Informatie Did at least one con Number of Public Contacts 14 3 17 Contact with the Media Contacts L Did at least one con Number of Media Contacts 114	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages Media Jst tact take place during each quarter of th Media Contacts Type Articles or stories resulting from outree	e reporting year? Yes e reporting year?	NO N/A ON TRACK
1 Public Information rograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack CD CD	Public Information Did at least one com Number of Public Contacts 14 3 17 Contact with the Media Contacts L Did at least one cont Number of Media Contacts 114 13	on Programs List tact take place during each quarter of th Public Information Programs General water conservation informatio Email Messages Media List tact take place during each quarter of th Media Contacts Type Articles or stories resulting from outrea News releases	e reporting year? Yes e reporting year? sch	NO N/A ON TRACK

Welcome Dan Gwaltpey | Logout Role:Editor

Reporting Unit:Sacramento County Water Agency – Arden Park Vista Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	BMP 2.2 School Education Programs	Provisional Coverage Indic , Retail Agencies	ation ON TRAC Online He
< 2014 V >	Submited 11/23/201	l to CUWCC 5 7:09:22 AM	
Nater Sources and Usage	- Form Complete 🔍 Form	n Status: Submitted	
otable Water Sources	1		
on Potable Water Sources			
otable Water Uses	Does your agency implement a school education	program? Yes	No N/A
on Potable Water Uses	Are there one or more wholesale agencies	Please provide the name of Agency, co	ntact name
MP 1	counted to help your agency comply with the BMP?	and email address if not CUWCC Group	1 members.
1 Retail Operations Practices			~
2 Detail Mater Loss Control			4
2 Retail Water Loss Collulo			
3 Retail Metering with promodity			ON TRACK
4 Retail Conservation Pricing	Materials meet state education framework requirements.	Description: 6 d	haracters remaining
MP 2			Interna 🔥
1 Public Information			
ograms		r updates in faile raise	· · · ·
			a the state of the
2 School Education			
2 School Education MP 3 - Residential			ON TRACK
2 School Education MP 3 - Residential Traditional / FlexTrack	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / RexTrack MP 4 - CII	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / RexTrack MP 4 - CII Traditional / RexTrack	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / RexTrack MP 4 - CII Traditional / RexTrack MP 5 - Landscape Traditional / RexTrack	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	ON TRACK 95 characters remaining
2 School Education MP 3 - Residential Traditional / RexTrack MP 4 - CII Traditional / RexTrack MP 5 - Landscape Traditional / RexTrack PCD	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students: Description of materials distributed to 7- 12 students	ON TRACK 95 characters remaining 121 characters remaining
2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCD	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students: Description of materials distributed to 7- 12 students	ON TRACK 95 characters remaining 121 characters remaining
2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CTI Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack CD XCD	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students: Description of materials distributed to 7- 12 students	ON TRACK 95 characters remaining 121 characters remaining
2 School Education MP 3 - Residential Traditional / RexTrack MP 4 - CII Traditional / RexTrack AP 5 - Landscape Traditional / RexTrack CD CD	Materials distributed to K-6 students. Number of student reached. Materials distributed to 7-12 students. (optional)	Description of materials distributed to K- 6 students: Description of materials distributed to 7- 12 students	ON TRACK 95 characters remaining 121 characters remaining
2 School Education AP 3 - Residential Fraditional / RexTrack AP 4 - CII fraditional / FlexTrack IP 5 - Landscape fraditional / FlexTrack CD CD view / Submit	Materials distributed to K-6 students. Number of student reached. Materials distributed to 7-12 students. (optional)	Description of materials distributed to K- 6 students: Description of materials distributed to 7- 12 students	ON TRACK 95 characters remaining 121 characters remaining

V4 - Latest

22

Welcome Dan Gwaltney | Looput Role:Data Entry User

This application was created **uReports/TigHU bitsBact and atter deBits/FVCabeola**gency -Visit <u>www.devezoress.com</u> to **durgue acch Vishcopred** Signatory:Sacramento County Water Agency

RU Type Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

		Potable Water So	urces		Onlin	e Help
Reporting Year			1			
2013 Water Sources and Usage	Form Comp	olete 5. 6/ Submitted	bmited to CU 30/2014 4:4	WCC 4:50 PM		
log Botable Water Sources		Service Area Populat	ion: 150 220			Save
National Polatices	Potable					
on Potable Water Uses	Potable Water					New
MP 1	Imported	AF/Year	Water Supply Type	Water Supply Description	1	Actions
I Retail Operations Practices						
Retail Water Loss Control		2	No data to display			
3 Retail Metering with		Total: 0.0)			
mmodity						New
Retail Conservation Pricing	Local Watershed	AF/Year	Water Supply Type	Water Supply Description	Action	5
4P 2	Laguna/Vineyard Areas	23,274.00	Groundwater	Groundwater	Edit	Delete
ograms	Sacramento River	13,969.00	Surface	Vineyard SWTP	Edit	Delete
2 School Education		Total: 37,243.00				-
1P 3 - Residential			-			
Fraditional / FlexTrack	1. to					
4P 4 - CII						
raditional / FlexTrack						
1P 5 - Landscape						
raditional / FlexTrack						
PCD						
PCD						

Welcome Dan Gwaltney | Looput Role Data Entry User

This application was created using the Img/U pitsBact application as Coloring With the Coloring of Coloring and Coloring a

Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

	No	n Potable Water	r Sources		Onlin	e Help
Reporting Year 2013 > Water Sources and Usage Potable Water Sources Non Potable Water Sources	Form Comple Form Status: S Se Non Potable Water	ete Submitted rvice Area Population:	Submited to 6/30/2014	o CUWCC 4:44:50 PM		Save
Potable Water Uses	Ϋ́					New
Ion Potable Water Uses	Imported	AF/Year	Water Supply Type	Water Supply Description	1	ctions
MP 1						
I Retail Operations Practices			No data to display			
2 Retail Water Loss Control		Total: 0.0	Ю			
Retail Metering with mmodity						New
Retail Conservation Pricing	Local Watershed	AF/Year	Water Supply Type	Water Supply Description	Action	5
P 2	Laguna/Vineyard Area	686.00	Recycled Non Potable	SRWTP - Recycled	Edit	Delete
Public Information	Laguna/Vineyard Area	236.00	Raw Water	SRWTP - Makeup Water	Edit	Delete
grams		Total: 922.00				
School Education	1					
IP 3 - Residential						
raditional / FlexTrack						
P 4 - CII						
radiuonal / Hextrack						
r > - Landscape						
mdilianal (filestradi						
raditional / FlexTrack						

Welcome Dan Gwaltney | Looput Role Data Entry User

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency **RU Type:Retail**

Home Annual Input Forms Base Year Data Reports Reporting Unit

		P	otable Water	Jses				Online I
orting Year				Sub	mited to Cl	WCC		
2013 - >	Form	Comp	lete	6/3	0/2014 4:4	4:50 PM		
Sources and Usage	Form S	tatus:	Submitted					
ater Sources	Billed							New
e Water Sources	Customer	Matam	Motornet Water	Un-	Un-			
er Uses	Туре	Account	Delivered AF/Yea	r #	metered Water be Delivered AF/Ye	Description ar	Actio	ns
Water Uses		-		nucuum		Unmetered		
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perations Practices	Family	40,93	0 10,004.00	0,50	ri 9,1903	connection usage	Eau	Delete
etering with	Multi-Family	23	0 654.00			Unmetered estimated based on	Edit	Delete
onservation Pricing		-			-	connection		
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ormation	Commercial	97	6 1,704.00	1	1 21.0	estimated based on metered	Edit	Delete
ducation	a					usage		
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/ RexTrack	Industrial	2	375.00	1 1	0 23.0	0 based on metered	Edit	Delete
						connection usage		
/ FlexTrack						Unmetered		
idscape	Institutional	17	754.00		2 5.0	o based on	Edit	Delete
/ RexTrack						connection		·
	Dedicated Irrigation	607	7 3,590.00	(D	usaye	Edit	Delete
	Other	(0.00	55	5 16.0	0	Edit	Delete
			Total : 25,681.00		Total : 4,205.0	0		
	Un-Billed							New
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		0	153.00	0	446.00		Edit	Delete
			Total · 153.00	Ť	Total 446 00			

http://bmpreporting.cuwcc.org/Pages/CUWCC/ReportingUnit/AnnualReport.aspx?ruID=50... 7/7/2014

Welcome Dan Gwaltney | Logout Role Data Entry User

This application was created uBoo the IntroducitsBaler and the Materia Codin to Materia Agency -Vist www.devesoress.com to dtage a kryfn Visherpy rd

GPCD

Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

		No	on Potable Wa	iter Use	S			Online
Reporting Year	Form S	i Comp itatus:	lete Submitted	Subi 6/30	mited to CU 0/2014 4:44	WCC 9:50 PM		New
Non Potable Water Sources Potable Water Uses	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Un- Metered # Accounts	Un - metered Water Delivered AF/Year	Description	Action	s
Non Potable Water Uses	Dedicated Imigation	266	686.00	0	0.00	SRWTP -	Edit	Delete
I.1 Retail Operations Practices	Dedicated Irrigation	0	236.00	0	0.00	SRWTP - Makeup Water	Edit	Delete
2 Retail Water Loss Control			Total : 922.00		Total : 0.00	·	*	
3 Retail Metering with	Un-Billed							New
4 Retail Conservation Pricing	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Un- Metered # Accounts	Un - metered Water Delivered AF/Year	r Description	1	Actions
1 Public Information ograms				No data	to display			
2 School Education			Total : 0.00		Total :	0.00		-
4P 3 - Residential								
raditional / FlexTrack								
IP 4 - CII								
raditional / FlexTrack								
P 5 - Landscape								
raditional / FlexTrack								
PCD								

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Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

	BMP 1.1 Operations	Practices	ON TRACK	Online Help
Reporting Year		Submited to	CUWCC	
< 2013 . >	6/	30/2014 4:	44:22 PM	
Water Sources and Linnes	Form Complete	Form Statu	us: Submitted	
Detable Mater Fourter				
Non Detable Water Sources	P			- 1
Non Potable Water Sources				
otable water Uses	Conservation Coordinator			
Ion Potable Water Uses	Conservation Coordinator	lo		
IMP 1				
1.1 Retail Operations Practices			na internetien en e	
1.2 Retail Water Loss Control	Contact Information			
3 Retail Metering with commodity	First Name	Dan		
4 Retail Conservation Pricing	Title	Associate Civil En	gineer	
	Phone	916-874-3910		
A D Alla Tafa an Nas	Email	gwaitneyd@sacco	unty net	
rograms				
2 School Education	Water Waste Prevention			
IMP 3 - Residential	An agency MUST do at least one or mo	re of the following	six strategies; although wate	r agencies are
IMP 3 - Residential Traditional / FlexTrack	An agency MUST do at least one or mo encouraged to do them all when possi	re of the following ble.	six strategies; although wate	r agencies are
MP 3 - Residential Traditional / FlexTrack MP 4 - CII	An agency MUST do at least one or mo encouraged to do them all when possi	re of the following ble. electronic link) to the	six strategies; although wate	r agencies are
IMP 3 - Residential Traditional / FlexTrack IMP 4 - CII Traditional / FlexTrack	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File	re of the following ble. electronic link) to the ation requirements o	six strategies; although wate e ordinances or terms of service a f this BMP.	r agencies are
IMP 3 - Residential Traditional / FlexTrack IMP 4 - CII Traditional / FlexTrack IMP 5 - Landscape	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File	re of the following ble. electronic link) to the attion requirements o	six strategies; although wate e ordinances or terms of service a f this BMP.	r agencies are
MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / ElexTrack	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File	re of the following ble. electronic link) to th ation requirements o	six strategies; although wate e ordinances or terms of service a f this BMP.	dopted
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IMP 3 - Residential Traditional / FlexTrack IMP 4 - CII Traditional / FlexTrack IMP 5 - Landscape Traditional / FlexTrack IPCD	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File WA URL http://www.countycoursel.saccounty	re of the following ble. electronic link) to the ntion requirements o	six strategies; although wate e ordinances or terms of service a f this BMP.	r agencies are
MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCD	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File NA URL http://www.countycounsel.saccounty Describe Ordinance or Terms	re of the following ble. electronic link) to the attion requirements o	six strategies; although wate e ordinances or terms of service a f this BMP.	r agencies are dopted
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MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCD	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File NA URL http://www.countycounsel.saccounty Describe Ordinance or Terms	re of the following ble. electronic link) to that ation requirements o	six strategies; although wate e ordinances or terms of service a if this BMP.	r agencies are dopted
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MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCD	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File WA URL http://www.countycounsel.saccounty Describe Ordinance or Terms	electronic link) to the net Documer electronic link) to the net Documer electronic link) any w ry agencies within yo	six strategies; although wate e ordinances or terms of service a of this BMP.	r agencies are dopted
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MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCD PCD	An agency MUST do at least one or mo encouraged to do them all when possi Option A: Describe (upload or provide an by your agency to meet the water waste preve Upload File MA URL http://www.countycounsel.saccounty/ Describe Ordinance or Terms Option B: Describe (upload or provide an adopted by your local jurisdiction(s) or regulate Upload File MA	re of the following ble. electronic link) to thi atton requirements o	six strategies; although wate e ordinances or terms of service a if this BMP.	or requirements

Option C: Describe (upload or provide an electronic link) any documentation of support for leg regulations that prohibit water waste. Upload File	islation or
	· · · · · · · · · · · · · · · · · · ·
NA	
URL	250 charact
	remain
•	
Option D: Describe your agency's efforts to cooperate with other entities in the adoption or en of local requirements consistent with this BMP, Upload File	orcement
NA	
Describe Efforts	250 characte remains
Describe Efforts	250 characte remains
Describe Efforts	250 characte remaina
Describe Efforts	250 characte remaina remaina
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or replat are consistent with this BMP. Jpload File MA	250 characte remaine remaine
Describe Efforts	250 characte remaina ulations 250 characte
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or registrat are consistent with this BMP. Ipload File MA Describe Legislation	250 character remaine utilations 250 character remainer
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or replat are consistent with this BMP. Jpload File A/4 Describe Legislation	250 characte remaina julations 250 characte remainer
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or rephat are consistent with this BMP. Jpload File M4 Describe Legislation	250 characte remaina ulations 250 characte remainm
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or replat are consistent with this BMP. Jpload File MA Describe Legislation Option F: Describe your agency's efforts to support local ordinances that establish permits require or water efficient design in new development.	250 characte remaine utlations 250 characte remainer ements
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or replat are consistent with this BMP. Ipload File MA Describe Legislation Option F: Describe your agency's efforts to support local ordinances that establish permits require or water efficient design in new development. Ipload File	250 characte remaina utiations 250 characte remainer ements
Describe Efforts Option E: Describe your agency's support positions with respect to adoption of legislation or replat are consistent with this BMP. Jpload File NA Describe Legislation Option F: Describe your agency's efforts to support local ordinances that establish permits require or water efficient design in new development.	250 characte remaina utations 250 characte remaine ements
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Exemption Type			1
NA			
Please Upload Document(s)		

Welcome Dan Gwaltney | Locout Role Data Entry User

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

	BMP 1.2 Water Loss Control	ACK.	Online Help
Reporting Year	Submited to CUW	ICC	
c 2013 - >	6/30/2014 4:44:22	2 PM	
Vater Sources and Hisane	Form Complete Form Status: Submitted		
Potable Water Sources			
Ion Potable Water Sources			
Potable Water Lices	AWWA Water Audit		
ion Potable Water Likes	Agency to complete a water audit and balance using the AWWA software	() Yes () No	1
IMP 1	Upload Worksheets (AWWA Water Audit)		F
1 Retail Operations Practices		1	
2 Retail Water Loss Control	C.s.		
2 Retail Materine with	Uploaded filename: WaterAudit2013 - Zone40,xls		
Loranodity	Water Aurilit Validity Crove 77	had a general second	
4 Retail Conservation Pricing	THE PART TERMY SARE !!		
SMP 2	Anoncy Completed Training in The AURIA Write Audit Method	B Mare C Mar	
1 Public Information frograms	Agency completed framing in the Awwa water Audit Method	wites O No	· · ·
2 School Education	Agency Completed Trainlog in The Component Analysis Process	Vet 🔿 No.	
MP 3 - Residential	· g		
Traditional / FlexTrack			
IMP 4 - CII	Completed/Updated the Component Analysis (at least every 4 years) (Effective from 2013)	🖲 Yes 🖄 No	.
Traditional / FlexTrack	Component Analysis Completed/Updated Date: 06/05/2012		
MP 5 - Landscape			
Traditional / FlexTrack	Water Loss Performance		
PCD			
PCD	Agency repaired all reported leaks & breaks to the extent cost effective	🕾 Yes 🖑 No	1
	Does your agency maintain a record keeping system for the following	ng?	
· · · · · · · · · · · · · · · · · · ·	Date/Time Leak Reported 🕘 Yes 🖄 No	Leak Location	🖲 Yes 🖒 No
	Type of Leaking Pipe Segment or Fitting 🔍 Yes 🖑 No	Leak Running Time From Report to Repair	🕘 Yes 🧑 No
	Leak Volume Estimate ; 💮 Yes 💿 No	Cost of Repair:	🖲 Yes 🗢 No
	Do you have an infrastructure 🕐 Yes 🐵 No		
	Agency cocated and repared unreported Leaks to the extent Cost Effecti	ve ev tes 🔾 No	
	Type of Program Activities Used to Detect Unreported Leaks		250 characters remaining

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Total	Economic Value Of	Economic Value Of	System	Reduction	Cost Of	Linear feet of pipe	Water	
Repaired	RealLoss	AppLoss	For	for loss	Interventions	renewal and rehabilitation	(AF/Year)	
1		1 1/	Leaks	reduction				
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Welcome Dan Gwaltney | Logout Role Data Entry User

Reporting Unit:Sacrämento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year 2013 > Water Sources and Usage Potable Water Sources Non Potable Water Uses Non Potable Water Uses BMP 1 1.1 Retail Operations Practices 1.2 Retail Water Loss Control	Form Cor Troplementation	nplete	Subm 6/30/2 For	ited to CU	wcc		
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2 Retail Water Loss Control	DOES YOUR AGENC	A neve any numer	Fred Service Confik	BEUONS?	18 TE	i Ca No	
	If YES, has yo	our agency complete	ed a meter retrof	t plan?	🖲 Yes	i 🗇 No	
3 Retail Metering with ommodity	If YES, numbe during reporti	er of previously unn ng year:	netered accounts	fitted with meter	2833		
4 Retail Conservation Pricing							~
MP 2							
1 Public Information	Are all new servi	ce connections beir	ig metered?		Yes	🖒 No	_
2 School Education	Are all new servi	ce connections beir	ig billed volumetr	ically?	🕘 Yes	C No	
MP 3 - Residential							
Traditional / RevTrack	8						
A A A A A A A A A A A A A A A A A A A							
MD 4 - CTI	14						-
MP 4 - CII	Has your agency written plan, poli	completed and sub cy or program to te	mitted electronic st, repair and rep	ally to the Counci place meters?	ia 🐵 Yes	🔿 Na	
MP 4 - CII Traditional / FlexTrack	Has your agency written plan, poli Please Fill Out	completed and sub cy or program to te The Following M a	mitted electronic st, repair and rep atrix	ally to the Counci lace meters?	ia 🐵 Yes	ී No	
MP 4 - CII Traditional / RexTrack MP 5 - Landscape	Has your agency written plan, poli Please Fill Out	completed and sub cy or program to be The Following M a	mitted electronic st, repair and rep atrix	ally to the Counci lace meters?	ia 🐵 Yes	ී No	
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your agency implementing an "at lea	ast as effective as" variant of this BMP?	Yes 🕘 No
YES, please explain in detail how yo	ur implementation of this BMP differs from	Upplieting.
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Welcome Dan Gwaltney | Looput Role Data Entry User

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

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Retail Conservation Pricing	00	- ana sia-ta		90.0
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Page 1 of 4

Welcome Dan Gwaltney | Looput Role Data Entry User

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

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Reporting Year		Submite	ed to C	UWCC	
< 2013 ->		6/30/201	L <mark>4 4:4</mark> 4	4:22 PM	
Water Source and Lines	Form Co	nplete Form	Status	: Submitted	
water sources and usage	-				
rotable water sources					
Ion Potable Water Sources	Does your Age	ncy perform Public Outreach?		O Yes 6	No No
Potable Water Uses	Are there one or n	nore wholesale agencies			
Ion Potable Water Uses	help your agency of	outreach which can be counted to comply with the BMP?	Please	e provide the name of Agency, and email address if not CUW	,contact /CC Group1 members
IMP 1			144 chai	racters remaining	
1 Retail Operations Practices					
2 Retail Water Loss Control					•
3 Petail Meterino with					
ommodity	Report a minimum during the year.	of 4 water conservation related contacts	your agen	cy had with the public	
4 Retail Conservation Pricing					-
IMP 2					ON TRACK
1 Public Information	Public Informati	on Programs List. Did at least one con	ulart take n	lace during each quarter of th	Steeu coitogea
rograms	Number of		and and p	Acc during cool quarter of th	e reporting years
2 School Education	Public Contacts	Public Information Programs			
IMP 3 - Residential	16	General water conservation information	on		
Traditional / FlexTrack	3	Email Messages			
MP 4 - CTT	19				
Traditional / Electronic	Contact with the	Media	🗇 Ye	s 🖲 No	
MP 5 - Landscape	Are there one or mo performing public of help your agency on	re wholesale agencies Itreach which can be counted to muly with the BMP2	Please	provide the name of Agency,	contact name and
Traditional / FlexTrack	hep your agency co		+ charac	ders remaining	5
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PCD					-
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	OR Retail Agency Media)	Contact with the Did at least one of	ontact take	place during each quarter of t	the reporting year?
	Number of Media Contacts	Media Contacts Type			
	9	Articles or stories resulting from outre	ach		
	12	News releases			
	2	Newspaper contacts			
	6	Radio contacts			
	4	Television contacts			
	1. 1				

Select the wholesale agency name(s)

Agency Website Up	dates				
Enter your agency's UR	L (website address):	http://www.	wah2o org.rwa/pro	grams wep	
Describe a minimum of	four water	10	10 0 10 cm 10 cm		7 characters rema
website that took place	during the year:	/5			
Did at least one website during each quarter of t	update take place the reporting year?	ම Yes ර	No		
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Enter budget for public of ategories by entering m Category	outreach programs. ' nany rows. Please ind Amount	You may enter to dicate if personn	Personnel Costs	e line or break the b in the entry. Comme	udget Into discrete
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Conservation Gardens					
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Landscape contests or	awards				
Describe water wise landscape contest or awards program conducted by your agency	en)			ya Characters	renatory =
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Additional Programs supported by agency but not mentioned above					ĺ
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Welcome Dan Gwaltney | Looput Role Data Entry User

Reporting Unit:Sacramento County Water Agency – Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

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Reporting Year	Submited	to CUWCC	
< 2013 - >	6/30/2014	4:44:22 PM	
Nater Sources and Usage	Form Complete Form S	tatus: Submitted	
Potable Water Sources			
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otable Water Uses	Does your agency implement a school education	program? 🔶 Y	es 🔿 No
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1 Potnii Oceantilana Depatican			
.1 Retail Operations Practices			
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3 Retail Metering with ommodity			ON TRACK
4 Retail Conservation Pricing	Materials meet state education framework requirements	Description: 6 char	acters remaining
MP 2			1000
1 Dublic Information			
rograms			-
2 School Education			-
MP 3 - Residential			ON TRACK
Traditional / FlexTrack	Materials distributed to K-6 students?	Description of materials distributed to K-	SJ character
MP 4 - CII		6 students:	remaining
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Traditional / FlexTrack		Served I in 19 of the Terror I contract	2.2.2
PCh	Number of student reached	(
	Materials distributed to 7-12 students? (optional)	Description of materials distributed to 7- 12 students	54 characters remaining
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	Annual budget for school education program	ar de later d	
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	Description of all other water supplier education programs	250 ci	haracters remaining
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Number offered Teacher training workshop Number of presentations Fund and/or staff student gardens,etc.: Number of tours or field trips College internships in wab Number of internships College internships Colle	ps: field trips to treatment f er conservation offered: ported by agency:	Number of attendees	vater conservation
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Number of booths	ar evenes and respirals:	Number of attendees	
Staffing children's booths	at events and factures		
pesurpaun	2,50 Undratters remaining	Hampe distributed	
Other methods of dissemi	nating information (i.e.)	themed age-appropriate class	room loaner kits):
Cooperative efforts with a fair awards or judging) as Number of presentations	existing science/water e nd follow-up:	ducation programs (various v Number of attendees	vorkshops, science
Children's water festivals Number of presentations	or other events:	Number of attendees	
Large group assemblies: Number of presentations		Number of attendees	
peacing the topics covered at	your classroom presentations.		
Deceribe the tenior orwand in			-
			250 characters remain

trifes, piease explain in detail why you d	onsider it to be "At Least As Effective As"	150 characters remaining
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Please Upload Document AsEffectiveAs		
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Exemption Type		
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Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retall

Home Annual Input Forms Base Year Data Reports Reporting Unit

porting Year	Pota	ible Water Sources	82-1-0-10-9-10-1	Online He
ter Sources and Usage able Water Sources Potable Water Sources able Water Uses	Form Complete Form Status: Sul Service Area Population Potable	e C Sub 10/ bmitted : 160 124	mited to CUW 30/2015 10:2	CC 6:28 AM
Potable Water Uses	Potable Water			
P 1	Imported	AF/Year	Water Supply Type	Water Supply Description
Retail Operations Practices Retail Water Loss Control		No data	to display	
Retall Metering with modity	Local Watershed	AF/Year	Water Supply Type	Water Supply Description
Retail Conservation Pricing	Laguna/Vineyard Areas	23,068.00	Groundwater	Groundwater
2	Sacramento River	7,933.00	Surface	Vineyard SWTP
Public Information		Total: 31,001.00		
School Education				
3 - Residential				
aditional / FlexTrack	0			
94 - CII				
editional / FlexTrack				
5 - Landscape				
aditional / FlexTrack				
aditional / FlexTrack				
aditional / FlexTrack				
aditional / FlexTrack D D ew / Submit				
aditional / FlexTrack				

 Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard
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 Role Editor

 RU Type:Retail
 Ruter Agency

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	Non	Potable Water Sources		Online Hel
< 2014 ~ >	Form Complete	2 @ Sub 10/	mited to CUW(30/2015 10:20	CC 5:28 AM
ater Sources and Usage	Form Status: Sul	bmitted		
otable Water Sources	Service Area 160 124	Prima de la companya	Co	by from previous year Save
on Potable Water Sources				
table Water Uses	Non Pocable water			
on Potable Water Uses	3			
MP 1	Imported	AF/Year	Water Supply Type	Water Supply Description
Retail Operations Practices		No data	to display	
2 Retail Water Loss Control				
3 Retail Metering with	Local Watershed	AF/Year	Water Supply Type	Water Supply Description
4 Dotail Conservation Driving	Laguna/Vineyard Area	622.00	Recycled Non Potable	SRWTP + Recycled
4 Retail Conservation Priong	Laguna/Vineyard Area	156.00	Raw Water	SRWTP - Makeup Water
MP 2		Total: 778.00		
1 Public Information ograms				W mental sector of a sector of the sector
2 School Education				
MP 3 - Residential				
Fraditional / FlexTrack				
4P 4 - CII				
Traditional / RexTrack				
1P 5 - Landscape				
Fraditional / FlexTrack				
CD				
CD				
view / Submit				
view / Submit				

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

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Home Annual Input Forms Base Year Data Reports Reporting Unit

porting Year								
ter Sources and Usage	Form St	Comple	te Submited	l to CU 015 10	W(:26	5:28	Copy from pre	vious year Save
Detable Water Courses	Billed		Jonneed					
able Water Uses	Customer	Metered	Metered Water	Un- Meterez	t	Un - metered Water	Description	
Potable Water Uses				Account	ls	Delivered AF/Year		
1	Single-Family	41,84	16,552.0	0 4,2	250	2,018.00	Unmetere metere	d estimated based on d connection usage
etail Operations Practices	Multi-Family	23	2 624.0	0	0	0.00	Unmetere	d estimated based on d connection usage
etail Metering with	Commercial	98	7 1,904.0	ю	9	21.00	Unmetere meterex	d estimated based on I connection usage
etail Conservation Pricing	Industrial		6 64.0	ю	0	0.00	Unmetere metered	d estimated based on I connection usage
2	Institutional	18	3 598.0	0	1	4.00	Unmeterer	d estimated based on t connection usage
ublic Information	Dedicated Imigation	58	5 2,833.0	o	0			
theol Education	Other		0.0	0	48	11.00		
			Total : 22,575.0	0		Total : 2,054.00		
3 - Keskientiai	Un-Billed							
ditional / FlexTrack	Customer Type	Metered Accounts	Metered Water Delivered AF/Year	Un- Metered # Accounts	Un De	- metered Water livered AF/Year	, er som	Description
5 - Landscape ditional / FlexTrack	Other	0	256.00	O			331.00	Other selected as customer type because application wouldn't allow to leave blank
2			Total : 256.00			1	Total : 331.00	
Ø	I the second sec							
nv / Submit								

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Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

eporting Year		Na	n Potable Water	Uses				Online He
< 2014 > > ater Sources and Usage	v Form Q	Complet	e Submite 10/30/2 AM	d to C 2015 1	UV 0::	VCC 26:28	opy from pre	evious year Save
table Water Sources	Form St	atus: Su	Ibmitted					
n Potable Water Sources	Billed						1	
able Water Uses	Customer	Metered	Metered Water	Un- Méterec	t	Un - metered Water	Description	
1 Potable Water Uses	Type	Accounts	Delivered AF/Year	Account	s	Delivered AF/Year	Description	
P 1	Dedicated Imigation	26	5 622.0	D	0	0.00		SRWTP
Retail Operations Practices	Dedicated	(0 156.0	0	0	0.00	SRWT	P - Makeup Water
Retail Water Loss Control			Total : 778.0	0		Total : 0.00		4 va
Retail Metering with modity	Un-Billed							
Retail Conservation Pricing	Customer	Metered	Metered Water	Un- Metered	Ur	- metered Water		
IP 2	Туре	Accounts	Delivered AF/Year	# Accounts	De	sivered AF/Year		Description
Public Information grams				No dat	a to	display		* · · · · · · · · · · · · · · · · · · ·
School Education			T-1-1 - 0.00					
P 3 - Residential			Total : 0.00				Total : 0.00	
aditional / FlexTrack								
24-CII								
aditional / FlexTrack								
95 - Landscape								
aditional / FlexTrack								
CD .	-							
D								
kew / Submit								
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 Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard
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 Signatory:Sacramento County Water Agency
 Role Editor

 RU Type:Retail
 RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

	BMP 1.1 Operatio	Provisional Coverage ns Practices	Indication ON TRAN Online He				
eporting Year	Submited to CUWCC						
< 2014 ~ >	10	J/30/2015 10:26:28 AM					
ater Sources and Usage	Form Complete	Form Status: Submitted					
otable Water Sources							
on Potable Water Sources							
otable Water Uses	Conservation Coordinator						
on Potable Water Uses	Conservation Coordinator						
MP 1	Conservation Coordinator Yes	No N/A	ON TRACK				
1							
tail Operations Practices	Contact Information						
2 Retail Water Loss Control	Hirst Nam Last Nam	e Dan					
3 Retail Metering with	Tit	e Associate Civit Engineer					
mmodity	Phon	e 916-874-3910					
4 Retail Conservation Pricing	Ema	gwaltneyd@saccounty nel					
4P 2	Water Waste Prevention						
Public Information ograms	An agency MUST do at least one or n encouraged to do them all when pos	nore of the following six strategies; although w sible.	ater agencies are				
2 School Education							
1P 3 - Residential	Option A: Describe (upload or provide all by your agency to meet the water waste new	n electronic link) the ordinances or terms of service a vention requirements of this BMP	dopted ON TRACK				
Fraditional / FlexTrack	Upload File						
IP 4 - C11							
and Name & Flow Torols	NA						
IP 5 - Landscape	URL http://www.countycounsel.saccount	y, net/Documer.	f 27 abomatom				
raditional / FlexTrack	Describe Ordinance or Terms		132 characters remaining				
	PERSONAL PROPERTY AND ADDRESS OF ADDRESS OF ADDRESS AD						
CD							
	le a						
CD	-10 T.						

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Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Penerting York	BMP 1.2 Wa	ter Loss	Contr	ol	Provisiona	al Cove	rage I	ndicatio	on On	on trac line Hel
2014 > Water Sources and Usage Potable Water Sources	🛛 Form Complete 🍳 f	51 10/3 Form S	u <mark>bmi</mark> 1 <mark>0/2(</mark> Statu	ted to 015 10 s: Subi	CUWCC :26:28 A mitted	М				
Non Potable Water Sources	AWWA Water Audit									
Potable Water Uses	Agency to complete a water audit and	balance u	ising the	AWWA sof	tware	Ves.	No	N/A	ON T	RACK
on Potable Water Uses	Lipicad Worksheets (AWWA Water	Auris) @	6			10		1911	011	TYTER
MP 1		Addity	0						2433	
.2	Uploaded filename: WaterAudit	2014 - 20	one40.x	ds					ONT	RACK
.3 Retail Metering with ommodity	Water Audit Validity Score 78		0 =							
4 Retail Conservation Pricing	Agency Completed Training In The	AWWA Wi	ater Aud	it Method		Yes	No	N/A	ON	TRACK
MP 2										
1 Public Information ograms	Agency Completed Training In The	Componer	nt Analy:	sis Process		Yes	No	N/A	ON 1	TRACK
2 School Education	Completed/Updated the Component (Effective from 2013)	Analysis	(at least	every 4 yea	ars)	Yes	No	N/A	ON T	TRACK
MP 3 - Residential	Component Analysis Completed/Updat	ted Date:	06/05/;	2012	forma	timm/dd/yy	ny .			
Traditional / FlexTrack	Water Loss Performance									
Traditional / FlexTrack	Agency repaired all reported leaks 8 effective	breaks to	the ext	ent cost	Yes	No	N/A		ON TR	ACK
MP 5 - Landscape	Recording Keeping Requiremen	ts Begini	ning in '	Year 2						
Traditional / FlexTrack	Date/Time Leak Reported	ra Keepir	No.		Tollowing?	ale Locati		Ver	R.L.	
CD	Type of Leaking Pine Segment or	145	ENO.	N/A	Le Look Pro	ak LOCatil	00	res	NO	N/A
CD CD	Rtting	Yes	Na	N/A	From Repo	rt to Repa	Bir	Yes	No	N/A
	Leak Volume Estimate :	Yes	No	N/A	Cos	t of Repa	ir:	Yes	No	N/A
view / Submit	Do you have an infrastructure rehabilitation and renewal program ?	Yes	No	N/A						

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Home Annual Input Forms Base Year Data Reports Reporting Unit

leporting Voor		BMP 1.3	fetering w	ith Commodil	Provisio ly Rates	nal Coveraç	je Indicati	ion N(OT ON TRA
< 2014 v >			10	Submite 0/30/201	d to CUV 5 10:26:	VCC 28 AM			
ater Sources and Usage	Form C	omplete	Q	Fo	orm Stati	us: Subr	nitted		
stable Water Sources		•							
n Potable Water Sources									
table Water Lices	Implementa	tion							
a Botable Water Licor								NOT ON	TRACK
Fotable Water Uses	Does your ag	gency have an	y unmetered	service connection	ons?	Ye	is No	N/A	
	If YES, ha	s vour agency	completed a	meter retrofit ol	an?	Vo	e No	61/8	
Retail Operations Practices	If YES, nu	mber of previ	ously unmete	red accounts fitte	ed with meters	10	5 140	n/A	
Retail Water Loss Control	during rep	orting year:	,,			3455			
Retail Metering with mmodity								ON 1	RACK
Retail Conservation Pricing	Are all new s	ervice connec	tions being m	etered?			Yes	No	N/A
P 2	Are all new s	ervice connec	tions being bi	iled volumetrical	v7		Yes	No	51/A
Public Information grams							10		140
School Education								ON T	RACK
P 3 - Residential	Has your age	ncy complete	d and submitt	ed electronically	to the Council	a written plan	4 Yes	No	N/A
raditional / FlexTrack	poicy or proj	prant to test, t	epair and rep	lace meters?			8103 	in an	00
P 4 - CII									
aditional / FlexTrack	NA								
D E - Landerana	Please Fill C	ut The Folk	wing Matrix	(
n o - controlape		#	#	# Metered	Billing	#	# Of		
oundride / mexifack	Account Type	Metered Accounts	Accounts	Billed by	Frequency Per Year	Estimated Bills/Year	Meter Readings		
.0			Read	Volume		andy reda	per Year		
D	Single-Family	41,840.00	41,820.00	41,640.00	Bi-monthly	6.00	6.00		^
	Multi-Family	232.00	232.00	232.00	Bi-monthly	6.00	6.00		
ew / Submit	Commercial	987.00	987.00	987.00	Bi-monthly	6.00	6.00		
	Industrial	6.00	6.00	6.00	BI-monthly	6.00	6.00		
	Inclinational	192.00	102.00	182.00	Di mantel	C 00	4.44		

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Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year		BMP 1.4 Retail	Pro Conservation Pricing	ovisional Coverage Indication	NOT ON TRAC Online Hel
< 2014 ~ >			Submited to 10/30/2015 10	CUWCC :26:28 AM	· · · · · · · · · · · · · · · · · · ·
Water Sources and Usage	Form Co	mplete 🍳	Form S	Status: Submitted	
otable Water Sources		•			
on Potable Water Sources	A. Implementa	tion (Water Rate	Structure)		
on Potable Water Lices	Enter the Water	Rate Structures t	hat are assigned to the m	ajority of your customers, by cust	omer class.
MP 1	Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Customer Meter/Service (Fixed) Charges	New
1 Retail Operations Practices			No data to dis	nlav	
2 Retail Water Loss Control				hard 1	
3 Retail Metering with ommodity			\$0.00	\$0.00	
A Datail Concommisso	R. Landsmann				
icing	o. implemental	non Options (Co	npliance with Conserva	tion Pricing Options (Water))	
vicing	Please Select an C	Don Options (Col	npliance with Conserva	tion Pricing Options (Water))	
MP 2 1 Public Information ograms	Please Select an C Option 1: An Use 3 years av	Don Option Option Inual Revenue As Re Grage Instead of mo	ported Option 2: Canadi st recent year	tion Pricing Options (Water)) Ian Water Wastewater Assn Rate Desig	n Model
MP 2 1 Public Information ograms 2 School Education	Please Select an C Option 1: An Use 3 years av If CWWA is selected	Doption nual Revenue As Re erage Instead of mo d, please upload spri	ported Option 2: Canadi st recent year cadsheet here.	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig	n Model
Precare Conservation ficing MP 2 Public Information ograms School Education MP 3 - Residential	Please Select an C Option 1: An Use 3 years av If CWWA is selected	Don Options (Con Inual Revenue As Re erage Instead of mo d, please upload spro	ported Option 2: Canadi st recent year adsheet here.	tion Pricing Options (Water)) Ian Water Wastewater Assn Rate Desig	n Model
Provide Conservation Provide Pr	Please Select an C Option 1: An Use 3 years av If CWWA is selected	Dotion Inual Revenue As Re erage Instead of mo d, please upload spro	ported Option 2: Canadi st recent year adsheet here.	tion Pricing Options (Water)) Ian Water Wastewater Assn Rate Desig	n Model
IP 2 Public Information Organis School Education AP 3 - Residential Fraditional / FlexTrack IP 4 - CII	Please Select an C Option 1: An Use 3 years av If CWWA is selected	Doption Inual Revenue As Re erage Instead of mo d, please upload spre	ported Option 2: Canadi st recent year cadsheet here.	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig	n Model
Production Conservation P 2 Public Information pgrams School Education P 3 - Residential Fraditional / FlexTrack P 4 - CII Fraditional / FlexTrack	Please Select an C Option 1: An Use 3 years av If CWWA Is selecter	Doption Inual Revenue As Re erage Instead of mo d, please upload spro Wastewater <u>A</u> ssocia	ported Option 2: Canadi st recent year adsheet here.	tion Pricing Options (Water)) Ian Water Wastewater Assn Rate Desig	n Model
AP 2 AP 2 AP 2 A Public Information ograms 2 School Education AP 3 - Residential Fraditional / FlexTrack AP 4 - CII Fraditional / FlexTrack AP 5 - Landscape	B. Implementation Please Select an C Option 1: An Use 3 years av If CWWA is selected MA Canadian Water &	Dotion Inual Revenue As Re erage Instead of mo d, please upload spro Wastewater Associa	ported Option 2: Canadi st recent year eadsheet here.	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig	n Model
MP 2 1 Public Information ograms 2 School Education MP 3 - Residential Traditional / FlexTrack AP 4 - CII Traditional / FlexTrack AP 5 - Landscape Traditional / FlexTrack	b. Impremental Please Select an C Option 1: An Use 3 years av If CWWA is selected M4 Canadian Water & C. Canadian Water	Dotion Inual Revenue As Re erage Instead of mo d, please upload spin Wastewater Associa	ported Option 2: Canadi st recent year cadsheet here.	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig ementation	n Model
MP 2 1 Public Information ograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack	Please Select an C Option 1: An Use 3 years av If CWWA Is selecter Ad Canadian Water & C. Canadian Water	Don Option Inual Revenue As Re erage Instead of mo d, please upload spin Wastewater <u>A</u> ssocia	ported Option 2: Canadi st recent year adsheet here.	tion Pricing Options (Water)) Ian Water Wastewater Assn Rate Desig	
MP 2 1 Public Information ograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack CD	Please Select an C Option 1: An Use 3 years av If CWWA Is selected Ad Canadian Water & C. Canadian Water & Rate Structure Option	Dotion Inual Revenue As Re erage Instead of mo d, please upload spin Wastewater Associa Name	ported Option 2: Canadi st recent year eadsheet here.	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig ementation	n Model
MP 2 1 Public Information ograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack MP 5 - Landscape Traditional / FlexTrack PCD PCD	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA Is selecter M4 Canadian Water & C. Canadian Water & Rate Structure Option	Definion Inual Revenue As Re erage Instead of mo d, please upload spro Wastewater Associa Nater & Wastewater Customer Class Name	ported Option 2: Canadi st recent year adsheet here. tion <u>Bate Design Model Imple</u> er Association Total Revenue Common Charges	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig ementation fity Total Revenue Customer Mete (Fixed) Charges	n Model
MP 2 1 Public Information ograms 2 School Education MP 3 - Residential Traditional / FlexTrack MP 4 - CII Traditional / FlexTrack 4P 5 - Landscape Traditional / FlexTrack CD CD	B. Implemental Please Select an C Option 1: An Use 3 years av If CWWA is selected Ma Canadian Water & C. Canadian Water & Rate Structure Option	Dotion Inual Revenue As Re erage Instead of mo d, please upload spro Wastewater Associa Nater & Wastewater Customer Class Name	Impliance with Conservation ported Option 2: Canadia st recent year sadsheet here. tion Bate Design Model Imple er Association Total Revenue Common Charges No data to disp	tion Pricing Options (Water)) an Water Wastewater Assn Rate Desig ementation dity Total Revenue Customer Mete (Fixed) Charges	n Model

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Welcome Dan Gwałtney | Lonout Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Pasautina Vasa		BMP 2.1 Public Information Pro	Provisional Coverage Indication ograms	ON TRAC Online Hel				
< 2014 ~ >	Submited to CUWCC 10/30/2015 10:26:28 AM							
Vater Sources and Usage	Form Com	plete 🧧 🛛 For	m Status: Submitted					
otable Water Sources								
on Potable Water Sources								
table Water Uses	Are there one or n	nore wholesale agencies performing						
on Potable Water Uses	agency comply wit	hich can be counted to help your hithe BMP?	Yes No N/A					
4P 1	If "Yes" please selec	t council wholesale agencies;	Please provide the name of agency , contact a and email address if not A Council Course 1 me	name				
1 Retail Operations Practices			144 characters remaining	muer.				
2 Retail Water Loss Control			manufactor summer	0				
3 Retail Metering with			CATE STAND, PARK	¥				
ommodity	Report a minimum of	four water conservation related contac	ts your accord had with the public					
Retail Conservation Pricing	during the year:							
NP 2				ON TRACK				
1 Public Information ograms	Public Informatio	en Programs List		A R.(MAR)+On der der versamer				
School Education	Number of	act take place during each quarter of th	he reporting year?					
AP 3 - Residential	Public Contacts	Public Information Programs						
Fraditional / FlexTrack	14	General water conservation information	n					
AP 4 - CII	3	Email Messages						
Traditional / FlexTrack	1/							
IP 5 - Landscape	Contact with the	Media	Yes N	o N/A				
raditional / FlexTrack			0	N TRACK				
	Media Contacts L	ist		0.000000				
CD								
CD	Did at least one cont	act take place during each quarter of th	ie reporting year?					
CD	Did at least one cont Number of Media Contacts	act take place during each quarter of th Media Contacts Type	e reporting year? 🗹					
CD view / Submit	Did at least one cont Number of Media Contacts 114	act take place during each quarter of the Media Contacts Type Articles or stories resulting from outrea	e reporting year? 🗹					
co ;view./.Submit	Did at least one cont Number of Media Contacts 114 13	act take place during each quarter of th Media Contacts Type Articles or stories resulting from outrea News releases	e reporting year? ✓					

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Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

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Reporting Year	Provisional Coverage Indication ON TRACK BMP 2.2 School Education Programs, Retail Agencies Online Help						
< 2014 ~ >	Submited 10/30/2015	ed to CUWCC 15 10:26:28 AM					
Water Sources and Usage	Form Complete 🤷 🛛 Form	m Status: Submitted					
Potable Water Sources							
Ion Potable Water Sources							
Potable Water Uses	Does your agency implement a school education	program? Yes	No N/A				
Ion Potable Water Uses	Are there one or more wholesale agencies	Please provide the name of Agency, cor	itact name				
IMP 1	performing school education programs which can be counted to help your agency comply with the BMP?	and email address if not CUWCC Group	1 members.				
1 Datail Occuptions Detailors							
.1 Retail Operations Practices							
.2 Retail Water Loss Control							
.3 Retail Metering with commodity			ON TRACK				
4 Retail Conservation Pricing	Materials meet state education framework requirements.	Description: 6 ch	aracters remaining				
IMP 2			24 14 Å				
1 Dublic Information							
rograms							
.2 School Education							
MP 3 - Residential	1. 22		ON TRACK				
Traditional / FlexTrack	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students:	95 characters remaining				
MP 4 - CII							
Traditional / FleyTrack							
mr 5 - canoscape							
Haditional / Hextrack	Number of student reached.						
	Materials distributed to 7-12 students. (optional)	Description of materials distributed to 7-	121 characters				
PCD		12 students	remaining				
PCD							
PCD PCD							
PCD PCD eview / Submit							
PCD PCD eview / Submit							

 Reporting Unit:Sacramento County Water Agency - Wholesale
 Welcome Dan Gwaltney I Looput

 Signatory:Sacramento County Water Agency
 Role: Editor

 RU Type:Wholesale
 Role: Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

2013 err Sources and Usage able Water Sources Potable Water Sources Potable Water Sources Deb Water Uses Potable Water Component Uses Nolesale Operations iccoal Watershed AF/Year Wholesale Metering with modity No data to display Wholesale Public mation Programs 3 - Residential
Potable Water Sources Potable Water Uses Potable Water Control Wholesale Mater Mater Supply Type Wholesale Matering with modity No data to display Vholesale Public Total: 0.00 Wholesale Public Total: 0.00
Petable Potable Potable Water Uses Potable Water 1 Imported Imported AF/Year Water Supply Type Water Supply Descr Intolesale Operations ces No data to display holesale Water Control Imported Intolesale Mater Control Imported Intolesale Public Control Imported Intolesale Public Control Imported Intolesale Public Control Imported Intersection Programs Imported Intersection Programs Imported
Intable Water Uses Potable Water Imported AF/Year Water Supply Type Water Supply Descriptions olesale Operations No data to display No data to display olesale Metering with dity Local Watershed AF/Year Water Supply Type Water Supply Descriptions olesale Public Total: 0.00 Total: 0.00 Total: 0.00
Imported AF/Year Water Supply Type Water Supply Descriptions No data to display No data to display Invoid AF/Year Water Supply Type Uccal Watershed AF/Year Water Supply Type Water Supply Type Water Supply Description Water Supply Type Water Supply Description Imported AF/Year Water Supply Type Water Supply Type Water Supply Description No data to display No data to display Wesale Public Total: 0.00 Water Supply Type Water Supply Type Residential For the supple
sale Operations Sale Water Ol Local Watershed AF/Year Water Supply Type Water Supply Desc No data to display Local Watershed AF/Year No data to display Sale Cation Programs Sale Cation Programs Esidential
e Water e Metering with Public Programs e Public Cocal Watershed AF/Year No data to display Total: 0,00 Water Supply Desc No data to display B tion Programs idential
Local Watershed AF/Year Water Supply Type Water Supply Description No data to display No data to display sale Public m Programs Total: 0.00 sale Action Programs Kesidential
No data to display Total: 0.00 Total: 0.00 Esidential
ale Public Programs ale cation Programs esidential
Ne alion Programs ssidential
sidential
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Reporting Unit;Sa Signatory:Sacram RU Type:Wholesal	cramento County Water ento County Water Ager e	Agency - Wholesale Icy		Welcome Dan Gwaltney Looout Role Editor
Home Annuał	Input Forms Base Year D	vata Reports Rep	orting Unit	
Reporting Year		ion Potable Water	Sources	Online Help
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Non Potable Water Uses				
BMP 1	Imported	AF/Year	Water Supply Type	Water Supply Description
1.1 Wholesale Operations Practices			No data to display	
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2.1 Wholesale Public Information Programs		an a	Total: 0.00	
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BMP 4 - CII				
BMP 5 - Landscape				
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 Reporting Unit:Sacramento County Water Agency - Wholesale
 Weicome Dan Gwaltney | Locout

 Signatory:Sacramento County Water Agency
 Role: Editor

 RU Type:Wholesale
 Role: Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

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otable Water Uses	Туре	Accounts	Delivered AF/Year	Accounts	Delivered AF/Year	Description	
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iodity				Accounts	1111 Int. 1	-Walnahak	
2				No data	to display		
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5 - Landscape							
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Reporting Unit:Sacramento County Water Agency - Wholesale Signatory:Sacramento County Water Agency RU Type:Wholesale Welcome Dan Gwaltney | Locout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

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3 - Residential	-						
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Page 1 of 1

Signatory:Sacrame RU Type:Wholesate	nto County Water Agency	ncy - wholesale		Welcome Dan Gwa	Role Editor
Home Annual In	iput Forms Base Year Data	Reports Repo	rting Unit		
Reporting Year	BMP 1.1 O	perations Pract Si	Pi ices, Wholesale Age ubmited to CU 23/2015 2:10	rovisional Coverage Indicatio ncles WCC	n ON TRAO Online Heip
Water Sources	SForm Complete	Q	Form Status	Submitted	
Ion Potable Water Sources	Conservation Coordinate	or Contact Infor	mation		
on Potable Water Uses	First Name	Dan			
MP 1	Last Name Title	Associate Civil E	ngineer		
1 Wholesale Operations ractices	Phone Email	916-874-3910 gwattneyd@sacc	ounty net		
2 Wholesale Water ss Control	Wholesale agency assist	ance programs		- And Anna Anna Anna Anna Anna Anna Anna	
3 Wholesale Metering with mmodity					ON TRACK
4P 2 L Wholesale Public formation Programs	a.Financial Investments List the total monetary am to otherwise support imple List regional partnerships (s & Building Part nount of financial inc ementation of BMPs developed to encour	merships entives and equivalent re age resource conservation	sources provided to retail members a	assist with, or benefits.
AP 3 - Residential	BMP Name		Monetary Amount for Financial Incentives	Monetary Amount for Equivalent R	ésources
AP 4 - CIT	BMP 3 Residential		2,497.00		
1P 5 - Landscape	b Taskalani Curaati				ON TRACK
	Supply a summary of t	types of technical	support provided to re	etail agencies.	31 characters
view / Submit				2000 - 2000 - 2000 2000 - 2000 - 2000 2000 - 2000 - 2000 2000 - 2000 - 2000	
	C.Program Management	: Cv has assumed m	portina responsibility.	list the program managed on b	shalf of the

Reporting Unit:Sacramento County Water Agency - Wholesale Signatory:Sacramento County Water Agency RU Type:Wholesale Welcome Dan Gwaltney | Logout Role:Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	BMP 1.2 Water L	oss Con	trol, W	holesale .	Provision: Agencies	l Cove	rage I	ndicatio	on o Onli	n trac ine Heli
< 2013 ~ >		S 11/	ubmi 23/2	ted to 015 7:	CUWCC 10:12 A	м				
ater Sources and Usage	🛛 Form Complete 🍳 i	Form	Statu	s: Sub	mitted					
table Water Sources										
on Potable Water Sources			· · · · · · ·							
table Water Lices	AWWA Water Audit									
a Deteble Weter Lines	Agency to complete a water audit and	balance	using the	a AWWA sof	tware	Yes	No	N/A	ON TR	RACK
n Potable Water Uses	I totand Mindahasha Katanata Inter-									-
IP 1	Upload Worksheets (AWWA Water	AUCILI)								fe v ^a nni filin e naanie
Wholesale Operations	Uploaded filename: WaterAudit	2013 - Z	one40.)	ds					ON TR	CACK
2 Wholesale Water ss Control	Water Audit Validity Score 78		-							
Wholesale Metering with mmodity	Agency Completed Training In The	AWWA W	later Aud	lit Method	*	Vere	No	N/A	OWT	DACK
IP 2	- gener en general i en ing					105	no	ray m	UNI	NVIL N
Wholesale Public primation Programs	Agency Completed Training In The	Compone	nt Analy:	sis Process		Yes	No	N/A	ON T	RACK
2 Wholesale hoof Education Programs	Completed/Updated the Componen (Effective from 2013)	t Analysis	(at least	every 4 ye	ars)	Yes	No	N/A	ON T	RACK
IP 3 - Residential	Component Analysis Completer/Linda	led Date:	06/05/	2012	forms	t-mm/dd/aa				
₽4-CII			[baibai				"			
P.SLandscane	Water Loss Performance									
CD	Agency repaired all reported leaks & effective	i breaks t	o the exi	tent cost	Yes	No	N/A		ON TRA	ACK
	Recording Keeping Requirement	ts Begin	ning in	Year 2						
riew / Submit	Does your agency maintain a reco	rd keepi	ng systi	em for the	following?					
	Date/Time Leak Reported	Yes	No	N/A	Le	ak Locati	on	Yes	No	N/A
	Type of Leaking Pipe Segment or Fitting	Yes	No	N/A	Leak Ru From Repo	nning Th rt to Rep	ne air	Yes	No	N/A
	Leak Volume Estimate :	Yes	No	N/A	Cos	t of Repa	lr:	Yes	No	N/A
	Do you have an infrastructure rehabilitation and renewal	Yes	No	N/A						

Reporting Unit:Sacramento County Water Agency - Wholesale Signatory:Sacramento County Water Agency RU Type:Wholesale	Welcome Dan Gwaltney Looout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

Basaudina Masa	BMP 1.3	Metering with	Commodity Rat	Provisiona es, Wholesale A	l Coverage In Igencies	dicati	ion	NOT ON TRAC Online Hel
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on Potable Water Uses	Does your agenc	y have any unme	tered service connec	tions?	Vac bla		-	
MP 1		, ,			tes No	N/A		
1 Wholesale Operations	If YES, has yo	ur agency comple	ted a meter retrofit	plan?	Yes	No	N/A	A
ractices	If YES, numbe during reporting	r of previously un no vear:	imetered accounts fi	tted with meters				
2 Wholesale Water oss Control								
2 Wholerste Meterine								ON TRACK
ith Commodity	Are all new service	e connections be	ing metered?		Ye	es.	No	N/A
MP 2	Are all new service	e connections be	ing billed volumetric	allv?	v.		No	61/A
1 Wholesale Public			ing since reteriouncerte	nuî .	PC		110	11/25
formation Programs							14	
2 Wholesale	Has your agency	completed and s	ibmitted electronical	ly to the Council a s	arrittam			ON TRACK
choor cubcation Programs	plan, policy or pr	ogram to test, rep	air and replace mete	ers?	Ye	ŧs	No	N/A
MP 3 - Residential							Bo	nute
MP 4 - CII	Upload Cle	tar)						0000
MP 5 - Landscape		1040						
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	Commercial	108.0	0					
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Reporting Unit:Sacramento County Water Agency - Wholesale	Welcome Dan Gwaltney Looput
Signatory Sacramento County Water Agency	Role Editor
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Home Annual Input Forms Base Year Data Reports Reporting Unit

poorting Year	BMP 2	1.1 Public Information Pr	ograms,	Provisional Coverage Indica Wholesale Agencies	tion ON TR Online H
< 2013 ~ >		Sub 11/23	mited 3/2015	to CUWCC 5 7:10:12 AM	
ater Sources and Usage	Form Com	plete 🍳	Form	n Status: Submitted	
able Water Sources					
n Potable Water Sources					
able Water Uses	Does your Agency	perform Public Outreach?		Yes No N/A	
1 Potable Water Uses	Please use the drop	down menu below			
PI	to indicate which rel wholesale agency as	all agencies your sists with public outreach.		 Please provide the name of Agency,contain name and email address if not a Council 	act member.
Wholesale Operations	753			144 characters remaining	
ctices				And a state in the second second	. ^
Wholesale Water				Program Street in the	¥
s Control	Bonort 2 minimum of	four units many miles white			
Wholesale Metering with	during the year.	tour water conservation relate		your agency had with the public	a
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Reporting Unit:Sacramento County Water Agency - Wholesate Signatory:Sacramento County Water Agency RU Type:Wholesale Welcome Dan Gwaltney | Lobout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

leporting Year	BMP 2.2 School Education Programs,	Provisional Coverage Indication Wholesale Agencies	NOT ON TRAC
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on Potable Water Sources			
table Water Uses	Does your agency implement a school education	program? Yes	No N/A
n Potable Water Uses	Please use the dropdown menu below	Please provide the name of Agency, co	itact name
4P 1	to indicate which retail agencies your wholesale agency assists with school education programs.	and email address if not CUWCC Group	1 members.
Wholesale Operations			~
cices			· •
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4P 2 1 Wholesale Public formation Programs			
4P 2 1 Wholesale Public formation Programs 2 Wholesale			
4P 2 1 Wholesale Public formation Programs 2 Wholesale thool Education Programs		The Decomposition of the State	NOT ON TRACK
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4P 2 L Wholesale Public formation Programs 2 Wholesale hool Education Programs 4P 3 - Residential 8P 4 - CII 4P 5 - Landscape	Materials distributed to K-6 students.	Description of materials distributed to K- 6 students;	NOT ON TRACK 250 characters remaining
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Welcome Dan Gwaltney | Lopout Role Editor **Reporting Unit:Sacramento County Water Agency - Wholesale** Signatory:Sacramento County Water Agency RU Type Wholesale Home Annual Input Forms Base Year Data Reports Reporting Unit **Potable Water Sources** Online Help **Reporting Year** 2014 ~ > < Submited to CUWCC 🛛 Form Complete 🍳 11/23/2015 7:10:35 AM Water Sources and Usage Form Status: Submitted **Potable Water Sources** Service Area Population: 0 Copy from previous year Save Non Potable Water Sources Potable Potable Water Uses Non Potable Water Uses **Potable Water** BMP 1 AF/Year Imported Water Supply Type Water Supply Description 1.1 Wholesale Operations Practices No data to display 1.2 Wholesale Water Loss Control Local Watershed AF/Year Water Supply Type Water Supply Description 1.3 Wholesale Metering with Commodity No data to display BMP 2 2.1 Wholesale Public Information Programs Total: 0.00 2.2 Wholesale School Education Programs **BMP 3 - Residential** BMP 4 - CII **BMP 5 - Landscape** GPCD **Review / Submit** Back to Top

Reporting Units Signatory:Sacrar RU Type:Wholes:	acramento County Water mento County Water Agen ale	Agency - wholesale Icy		Welcome Dan Gwaltney Locaut Role:Editor
Home Annua	I Input Forms Base Year D	ata Reports Report	ng Unit	
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1.3 Wholesale Metering with Commodity			No data to display	
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Reporting Unit:Sacramento County Water Agency - Wholesale Signatory:Sacramento County Water Agency RU Type:Wholesale Welcome Dan Gwaltney | Locout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

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Reporting Unit:Sacramento County Water Agency - Wholesale Signatory:Sacramento County Water Agency RU Type:Wholesale Welcome Dan Gwaltney I Logout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

2014 > Inter Sources and Usage Date Sources and Usage Datable Water Sources Drable Water Sources Drable Water Uses Description Probable Water Uses MP 1 1 Wholesale Operations actices 2 Wholesale Water scontrol 3 Wholesale Metering with memodity 4P 2 1 Wholesale Public formation Programs	Form St Billed	Complete atus: Su	e Submite 11/23/3 AM bmitted	ed to C 2015 7	UWCC :10:35		
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Reporting Unit:Sacramento County Water Agency - Wholesale	Welcome Dan Gwaltney Lopput
Signatory:Sacramento County Water Agency	Role: Editor
RU Type:Wholesale	

Home Annual Input Forms Base Year Data Reports Reporting Unit

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	Last Name	Gwaltnev			
7. 4 .0	Title	Associate Civil Eng	gineer		
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cuces	Email	gwattneyd@saccor	unty net		
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Reporting Unit:Sacramento County Water Agency - Wholesale Signatory:Sacramento County Water Agency RU Type:Wholesale Welcome Dan Gwaltney | Logout Role Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

norting Year	BMP 1.2 Water I	.oss Con	trol, W	holesale	Provisional Co Agencies	verage 1	indicatio	on On	ine He
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holesale Public nation Programs	Agency Completed Training In The	Compone	nt Analy:	is Process	Ye	s No	N/A	ONT	RACK
holesale I Education Programs	Completed/Updated the Componer (Effective from 2013)	it Analysis	(at least	every 4 ye	ars) _{Ye}	s No	N/A	ON T	RACK
3 - Residential	Component Analysis Completed/Upda	ited Date:	06/05/	012	format:mm/c	k1/vyyy			
4 - CII									
5 - Landscape	water Loss Performance								
	Agency repaired all reported leaks a	& breaks t	o the exi	ent cost	Yes No	N/A		ON TR	ACK
	Recording Keeping Requirement	nts Begin	ning in '	Year 2			-		
w / Submit	uces your agency maintain a reci	ord keepi	ng syste	in for the	following?				
	Date/Time Leak Reported	Yes	No	N/A	Leak Lo	cation	Yes	No	N/A
	Type of Leaking Pipe Segment or Fitting	Yes	No	N/A	Leak Running From Report to I	r Time Repair	Yes	No	N/A
	Leak Volume Estimate :	Yes	No	N/A	Cost of R	epair:	Yes	No	N/A
	Do you have an infrastructure rehabilitation and renewal	Yes	No	N/A					

Reporting Unit:Sacramento County Water Agency - Wholesale	Welcome Dan Gwaltney Locout
Signatory:Sacramento County Water Agency	Role Editor
RU Type:Wholesale	

Home Annual Input Forms Base Year Data Reports Reporting Unit

	Provisional Coverage Indication 8MP 1.3 Metering with Commodity Rates, Wholesale Agencies								
Reporting Year			Submite	of to CUWC	c				
< 2014 V >	Porm Cor	nplete 🍳	F	orm Status	: Submitte	ed			
otable Water Sources									
on Potable Water Sources	Implementation	1							
on Potable Water Uses	Does your agend	y have any unmete	red service connec	tions?	Yes No	N/A	NOT ON TRACK		
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.1 Wholesale Operations ractices	If YES, numbe during reporti	er of previously unn	eo a meter retront netered accounts fi	plan? Ited with meters	Yes	No	N/A		
.2 Wholesale Water oss Control									
.3 Wholesale Metering rith Commodity	Are all new servi	ce connections bein	g metered?		Ye	s t			
MP 2	Are all new servi	ce connections bein	a billed volumetric	allv?	Ye	c 1	In NA		
1 Wholesale Public formation Programs					16	3 1			
2 Wholesale chool Education Programs	Has your agency plan, policy or pr	completed and sub ogram to test, repa	mitted electronical ir and replace mete	ly to the Council a v ers?	written Ye	s A	ON TRACK		
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MP 4 - CII	Upload Ck	sar					DION3G		
MP 5 - Landscape									
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	Commercial	108.00							

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Reporting Unit Sacramento County Water Agency - Wholesale	Welcome Dan Gwaltney Loopu
Signatory:Sacramento County Water Agency	Role:Editor
RU Type:Wholesale	

Home Annual Input Forms Base Year Data Reports Reporting Unit

tenorting Year	BMP 2	1.1 Public Information Prog	Provisional Coverage Indic rams, Wholesale Agencies	ation ON TRA Online He						
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4P 1	wholesale agency as	ssists with public outreach.	name and email address if not a Counc	il member.						
Wholesale Operations			Act disclose	<u>^</u>						
ctices			A REPORT OF THE PARTY OF THE PA							
Wholesale Water										
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 Reporting Unit:Sacramento County Water Agency - Wholesale
 Welcome Dan Gwaltney | Locout

 Signatory:Sacramento County Water Agency
 Role:Editor

 RU Type:Wholesale
 Role:Editor

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year	BMP 2.2 School Education Programs,	Provisional Coverage Indicatio Wholesale Agencies	In NOT ON TRAC Online Hel
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on Potable Water Uses	Please use the dropdown menu below	Please provide the name of Agency, or	intact name
MP 1	to indicate which retail agencies your wholesale agency assists with school education programs.	and email address If not CUWCC Group	p 1 members.
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California Urban Water Conservation Council

2020 GPCD Target Calculator VIS

This spreadsheet-based caículator is designed to help urban retail water suppliers establish a 2020 water use target

The methodologies contained herein are consistent with the publication Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use , the purpose of which is to ensure the consistent implementation of the Water Conservation Act of 2009.



Guidance & Instructions

Only systems serving more than 3,000 end users, or that supply more than 3,000 acre-feet of potable water annually at re This GPCD target calculator is designed to enable the user to generate and select a 2020 water use target for municipal purposes need to develop a target. Please note the following items:

developing a 2020 water use target. The choice

Establishing a baseline period is a key step in

Please read before data entry begins...

of baseline period is dependent on the result of

required data input. Please see below for more

details.

determine, to some extent, the timeframe for

evaluating 2008 recycled water use against water delivered and the result of this test will

All data entry is required to be in units of <u>Acre-feet</u>, unless indicated otherwise.

Cells shown in this color are for data entry.

Cells shown in this color are calculated fields and cannot be changed or overwritten.

O O Option buttons for user selection.

Data can be input monthly, or annually; the monthly totals will override the annual totals. However, when entering monthly data, ensure all month fields are completed. Do NOT leave blanks. For zero enter "0".

If any month is left blank, all other monthly data for that year will be ignored and the annual total will be used.

Cells shown in this color warn the user that monthly data has been left blank and therefore other monthly data entered for the year will be ignored. User tips are shown in these boxes. User tips...





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JAN	3.407.510
Year	2013

47.00

- 00 æ

CALCULATED TOTAL 713.440

Indirect Recycled Water Use

(use this calculator to help generate values)

Water Delivered for Agricultural Use (values entered will be subtracted from base daily GPCD water use)

Recycled Water Delivered

Volume of Water Exported to Another Water Utility or Jurisdiction

Change in Distribution System Storage

Industrial Process Water Delivered (values entered will be subtracted from base daily GPCD water use and baseline CII GPCD)

Gross Water Use



California Urban Water Conservation Council

Population

Input ceils:

Enter population data for the service area.

POPULATION	160,754
YEAR	2013

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CUWCC

This worksheet can be used as a calculator to generate an annual total for each year of input to the Main Data worksheet:

(see here)	Input cells:	Calculated cells:	
Annual Deductable Volume of Indirect Recycled Water Enterine Distribution System		Data Entry in acre-feet unless otherwise noted	

iurface Reservoir Nugmentation	N/A		N/A	Volume Discharged from Reservoir for Distribution System Delivery	Recycled Water Blend %	Recycled Water Delivered to Treatment Plant	Use Default 🔲 🤐 Transmission / Treatment Loss %	Transmission / Treatment Losses	Volume entering Distribution Svstem
(1)		(2)	(3)	(4)	(2)	(9)	(2)	(8)	101
ource 1								1	101
ource 2									
ource 3									
ource 4									
Durre 5									

		Use Default 🔲 90%				Use Default 🔲 3%		Volume enteries
Sroundwater Lecharge	5-Year Annual Average Recharge	Recharge Recovery Factor	Recycled Water Pumped from Basin	Utility Pumping as % of Basin Total	Recycled Water Pumped by Utility	Transmission / Treatment Loss %	Transmission / Treatment I occes	Distribution
(1)	(2)	(3)	(4)	(2)	(6)	121	(0)	107
lasin 1						1.1	fol	[2]
lasin 2								
lasin 3								
lasin 4								
asin 5								

0.000

Subtotal Reservoir Augmentation (A):

 Subtotal Groundwater Recharge (B):
 0.000

 Deductable Volume of Indirect Recycled Water Entering Distribution System (A+B):
 0.000

Transfer this value back to



California Urban Water Conservation Council

GPCD Matrix

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NUL	227 1
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APR	227.1
MAR	227.1
FEB	227 1
NAL	227.1
Year	2013



8
Conservation Council Conservation Council

Landscaped Area Water Use (method 2 only)

Input cells: Calculated cells:

Please note:

Water suppliers shall develop an estimate (forecast) of 2020 landscaped areas for purposes; do not enter existing landscaped area data

				Special Landscaped			
	Reference Evapotranspiration	Landscaped Area (1992 MWELO)	Landscaped Area (2009 MWELO)	Area (Non- residential, non- commercial)	Maximum Applied Water Allowance (1992)	Maximum Applied Water Allowance (2009)	
	(Inches per year)	(Square feet)	(Square feet)	(Square feet)	(Gallons per year)	(Gallons per year)	GPCD
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ET zone 7							
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ET zone 9							
ET zone 10							

ET Zones: Enter landscaped area data for

2020 Target:

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If you wish baseline CII	ata Entry in A niess otherwi	
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AUNUA		CPCD	
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California Urban Water

LV.

141

Welcome Dan Gwaltney | Logout Role Editor

Reporting Unit:Sacramento County Water Agency -Laguna / Vineyard Signatory:Sacramento County Water Agency RU Type:Retail

Home Annual Input Forms Base Year Data Reports Reporting Unit

Reporting Year			GPCD	Coverage	e Calculation	ns	Pi	ovisional	Coverag	Online He
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Back to Too

V4 - Latest

Appendix G: AWWA Water Audit Tables



AWWA WLCC F	ree Water A	udit Softwar	e: <u>Water Balance</u>	Water Audit Report For:	Report Yr:
	Copyright © 2010, America	n Water Works Association.	All Rights Reserved. WAS v4.2	SCWA - Non-Zone 40	2014
	Water Exported 0.000			Billed Water Exported	
			Billed Authorized Consumption	Billed Metered Consumption (inc. water exported) 985.000	Revenue Water
Own Sources (Adjusted for		Authorized Consumption	3,182.000	Billed Unmetered Consumption 2,197.000	3,182.000
known errors)		3,239.699	Unbilled Authorized Consumption	Unbilled Metered Consumption 0.000	Non-Revenue Water (NRW)
4,615.900			57.699	Unbilled Unmetered Consumption 57.699	
	Water Supplied		Improved Logges	Unauthorized Consumption	1,433.900
	4,615.900		55.242	Customer Metering Inaccuracies	
		Neton Logger		Systematic Data Handling Errors	
Water Imported		1,376.201	Real Losses	Leakage on Transmission and/or Distribution Mains Not broken down	
0.000			1,320.959	Leakage and Overflows at Utility's Storage Tanks Not broken down	
				Leakage on Service Connections Not broken down	

AWWA WLCC Free Water Audit Software: Determining Water

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LOSS	Standing

Back to Instructions

	Water Loss Control Planning Guide						
		Water A	Audit Data Validity Leve	I / Score			
Functional Focus Area	Level I (0-25)	Level II (26-50)	Level III (51-70)	Level IV (71-90)	Level V (91-100)		
Audit Data Collection	Launch auditing and loss control team; address production metering deficiencies	Analyze business process for customer metering and billing functions and water supply operations. Identify data gaps.	Establish/revise policies and procedures for data collection	Refine data collection practices and establish as routine business process	Annual water audit is a reliable gauge of year-to-year water efficiency standing		
Short-term loss control	Research information on leak detection programs. Begin flowcharting analysis of customer billing system	Conduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey, unauthorized consumption, etc.	Establish ongoing mechanisms for customer meter accuracy testing, active leakage control and infrastructure monitoring	Refine, enhance or expand ongoing programs based upon economic justification	Stay abreast of improvements in metering, meter reading, billing, leakage management and infrastructure rehabilitation		
Long-term loss control		Begin to assess long-term needs requiring large expenditure: customer meter replacement, water main replacement program, new customer billing system or Automatic Meter Reading (AMR) system.	Begin to assemble economic business case for long-term needs based upon improved data becoming available through the water audit process.	Conduct detailed planning, budgeting and launch of comprehensive improvements for metering, billing or infrastructure management	Continue incremental improvements in short-term and long-term loss control interventions		
Target-setting			Establish long-term apparent and real loss reduction goals (+10 year horizon)	Establish mid-range (5 year horizon) apparent and real loss reduction goals	Evaluate and refine loss control goals on a yearly basis		
Benchmarking			Preliminary Comparisons - can begin to rely upon the Infrastructure Leakage Index (ILI) for performance comparisons for real losses (see below table)	Performance Benchmarking - ILI is meaningful in comparing real loss standing	Identify Best Practices/ Best in class - the ILI is very reliable as a real loss performance indicator for best in class service		
	For validity scores of 50	or below, the shaded blocks s	hould not be focus areas until	better data validity is achieved	ł.		

Once data has been entered into the Reporting Worksheet, the performance indicators are automatically calculated. How does a water utility operator know how well his or her system is performing? The AWWA Water Loss Control Committee provided the following table to assist water utilities is gauging an approximate Infrastructure Leakage Index (ILI) that is appropriate for their water system and local conditions. The lower the amount of leakage and real losses that exist in the system, then the lower the ILI value will be.

<u>Note:</u> this table offers an approximate guideline for leakage reduction target-setting. The best means of setting such targets include performing an economic assessment of various loss control methods. However, this table is useful if such an assessment is not possible.

	General Guidel: (without doing a full econo	ines for Setting a Target 1 omic analysis of leakage co	ILI ontrol options)
Target ILI Range	Financial Considerations	Operational Considerations	Water Resources Considerations
1.0 - 3.0	Water resources are costly to develop or purchase; ability to increase revenues via water rates is greatly limited because of regulation or low ratepayer affordability.	Operating with system leakage above this level would require expansion of existing infrastructure and/or additional water resources to meet the demand.	Available resources are greatly limited and are very difficult and/or environmentally unsound to develop.
>3.0 -5.0	Water resources can be developed or purchased at reasonable expense; periodic water rate increases can be feasibly imposed and are tolerated by the customer population.	Existing water supply infrastructure capability is sufficient to meet long-term demand as long as reasonable leakage management controls are in place.	Water resources are believed to be sufficient to meet long-term needs, but demand management interventions (leakage management, water conservation) are included in the long-term planning.
>5.0 - 8.0	Cost to purchase or obtain/treat water is low, as are rates charged to customers.	Superior reliability, capacity and integrity of the water supply infrastructure make it relatively immune to supply shortages.	Water resources are plentiful, reliable, and easily extracted.
Greater than 8.0	Although operational and financial co leakage is not an effective utilizat: other than as an incremental goal to	nsiderations may allow a long-term I ion of water as a resource. Setting a smaller long-term target - is disc	LI greater than 8.0, such a level of a target level greater than 8.0 - ouraged.
Less than 1.0	If the calculated Infrastructure Leak exist. a) you are maintaining your leakage control. b) A portion of you This is likely if you calculate a low operations. In such cases it is bene the accuracy of production and custor data.	kage Index (ILI) value for your system leakage at low levels in a class with ur data may be flawed, causing your le w ILI value but do not employ extensi- eficial to validate the data by perfor- mer meters, or to identify any other p	m is 1.0 or less, two possibilities h the top worldwide performers in osses to be greatly understated. ve leakage control practices in your rming field measurements to confirm potential sources of error in the



ľ	AWWA WLCC F	'ree Water A	udit Softwar	re: <u>Water Balance</u>	Water Audit Report For:	Report Yr:
	(Copyright © 2010, America	n Water Works Association	. All Rights Reserved. WAS v4.2	SCWA - Zone 40	2014
-		Water Exported 2,496.300			Billed Water Exported	
-				Billed Authorized Consumption	Billed Metered Consumption (inc. water exported) 21,843.000	Revenue Water
	Own Sources		Authorized Consumption	24,405.000	Billed Unmetered Consumption	24,405.000
-	known errors)		24,991.738	Unbilled Authorized Consumption	Unbilled Metered Consumption 255.800	Non-Revenue Water (NRW)
	28,971.300			586.738	Unbilled Unmetered Consumption 330.938	
		Water Supplied			Unauthorized Consumption	2,070.050
		26,475.050		Apparent Losses 664.884	66.188 Customer Metering Inaccuracies	
F					450.996 Systematic Data Handling Errors	
			Water Losses		147.700	
	Water Imported		1,483.312		Leakage on Transmission and/or Distribution Mains	
				Real Losses	Not broken down	
	0.050			818.428	Leakage and Overflows at Utility's Storage Tanks	
					Not broken down	
F					Leakage on Service Connections Not broken down	

AWWA WLCC Free Water Audit Software: Determining Water

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Loss	Standing

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Water Audit Data Validity Level / ScoreFunctional Focus AreaLevel I (0-25)Level II (26-50)Level III (51-70)Level IV (71-90)Level V (91-1)Audit Data CollectionLaunch auditing and loss control team; address production metering deficienciesAnalyze business process for customer metering and billing functions and water supply operations. Identify data gaps.Establish/revise policies and procedures for data collectionRefine data collection practices and establish as routine business processAnnual water audit is gauge of year-to-ye efficiency standShort-term loss controlResearch information on leak detection programs. Begin flowcharting analysis of customer billing systemConduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey, and ifrastructure monitoringEstablish ongoing mechanisms for customer meter accuracy testing, active leakage control and infrastructure monitoringStay abreast of impro- meter read infrastructure repair infrastructure monitoring		Water Loss Control Planning Guide						
Functional Focus AreaLevel I (0-25)Level II (26-50)Level III (51-70)Level IV (71-90)Level V (91-7Audit Data CollectionLaunch auditing and loss control team; address production metering deficienciesAnalyze business process for customer metering and billing functions and water supply operations. Identify data gaps.Establish/revise policies and procedures for data collectionRefine data collection practices and establish as routine business processAnnual water audit is gauge of year-to-ye efficiency standShort-term loss controlResearch information on leak detection programs. Begin flowcharting analysis of customer billing systemConduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey,Establish ongoing mechanisms for customer meter accuracy testing, active leakage controlRefine, enhance or expand ongoing programs based upon economic justification			/ Score	Audit Data Validity Leve	Water			
Audit Data CollectionLaunch auditing and loss control team; address production metering deficienciesAnalyze business process for customer metering and billing functions and water supply operations. Identify data gaps.Establish/revise policies and procedures for data collectionRefine data collection practices and establish as routine business processAnnual water audit is gauge of year-to-ye efficiency standShort-term loss controlResearch information on leak detection programs. Begin flowcharting analysis of customer billing systemConduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey,Establish ongoing mechanisms for customer meter accuracy testing, active leakage controlRefine, enhance or expand ongoing programs based upon economic justificationStay abreast of impro- metering, meter read leakage managem infrastructure rehal	91-100)	Level V (91-100	Level IV (71-90)	Level III (51-70)	Level II (26-50)	Level I (0-25)	Functional Focus Area	
Short-term loss control Research information on leak detection programs. Begin flowcharting analysis of customer billing system Conduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey, Establish ongoing mechanisms for customer meter accuracy testing, active leakage control and infrastructure monitoring Refine, enhance or expand ongoing programs based upon economic justification Stay abreast of impro meter read leakage managem infrastructure rehaling	dit is a reliable to-year water standing	Annual water audit is a gauge of year-to-year efficiency standin	Refine data collection practices and establish as routine business process	Establish/revise policies and procedures for data collection	Analyze business process for customer metering and billing functions and water supply operations. Identify data gaps.	Launch auditing and loss control team; address production metering deficiencies	Audit Data Collection	
unauthorized consumption, etc.	nprovements in reading, billing, gement and rehabilitation	Stay abreast of improver metering, meter reading leakage managemen infrastructure rehabili	Refine, enhance or expand ongoing programs based upon economic justification	Establish ongoing mechanisms for customer meter accuracy testing, active leakage control and infrastructure monitoring	Conduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey, unauthorized consumption, etc.	Research information on leak detection programs. Begin flowcharting analysis of customer billing system	Short-term loss control	
Long-term loss controlBegin to assess long-term needs requiring large expenditure: customer meter replacement, water main replacement program, new customer billing system or Automatic Meter Reading (AMR) system.Begin to assemble economic business case for long-term needs based upon improved data becoming available through the water audit process.Conduct detailed planning, budgeting and launch of comprehensive improvements for metering, billing or infrastructure managementConduct detailed planning, budgeting and launch of comprehensive improvements infrastructure managementContinue increm improvements in shore long-term loss c	cremental short-term and ss control ntions	Continue incremen improvements in short-te long-term loss cont interventions	Conduct detailed planning, budgeting and launch of comprehensive improvements for metering, billing or infrastructure management	Begin to assemble economic business case for long-term needs based upon improved data becoming available through the water audit process.	Begin to assess long-term needs requiring large expenditure: customer meter replacement, water main replacement program, new customer billing system or Automatic Meter Reading (AMR) system.		Long-term loss control	
Target-setting Establish long-term apparent and real loss reduction goals (+10 year horizon) Establish mid-range (5 year horizon) apparent and real loss goals on a yearly goals on a yearly	ne loss control early basis	Evaluate and refine loss goals on a yearly ba	Establish mid-range (5 year horizon) apparent and real loss reduction goals	Establish long-term apparent and real loss reduction goals (+10 year horizon)			Target-setting	
Benchmarking Benchmarking	ctices/ Best in /ery reliable as arformance in class service	Identify Best Practices/ class - the ILI is very reli a real loss performa indicator for best in class	Performance Benchmarking - ILI is meaningful in comparing real loss standing	Preliminary Comparisons - can begin to rely upon the Infrastructure Leakage Index (ILI) for performance comparisons for real losses (see below table)			Benchmarking	
For validity scores of 50 or below, the shaded blocks should not be focus areas until better data validity is achieved.			better data validity is achieved	should not be focus areas until	or below, the shaded blocks s	For validity scores of 50		

Once data has been entered into the Reporting Worksheet, the performance indicators are automatically calculated. How does a water utility operator know how well his or her system is performing? The AWWA Water Loss Control Committee provided the following table to assist water utilities is gauging an approximate Infrastructure Leakage Index (ILI) that is appropriate for their water system and local conditions. The lower the amount of leakage and real losses that exist in the system, then the lower the ILI value will be.

<u>Note:</u> this table offers an approximate guideline for leakage reduction target-setting. The best means of setting such targets include performing an economic assessment of various loss control methods. However, this table is useful if such an assessment is not possible.

General Guidelines for Setting a Target ILI (without doing a full economic analysis of leakage control options)						
Target ILI Range	Financial Considerations	Operational Considerations	Water Resources Considerations			
1.0 - 3.0	Water resources are costly to develop or purchase; ability to increase revenues via water rates is greatly limited because of regulation or low ratepayer affordability.	Operating with system leakage above this level would require expansion of existing infrastructure and/or additional water resources to meet the demand.	Available resources are greatly limited and are very difficult and/or environmentally unsound to develop.			
>3.0 -5.0	Water resources can be developed or purchased at reasonable expense; periodic water rate increases can be feasibly imposed and are tolerated by the customer population.	Existing water supply infrastructure capability is sufficient to meet long-term demand as long as reasonable leakage management controls are in place.	Water resources are believed to be sufficient to meet long-term needs, but demand management interventions (leakage management, water conservation) are included in the long-term planning.			
>5.0 - 8.0	Cost to purchase or obtain/treat water is low, as are rates charged to customers.	Superior reliability, capacity and integrity of the water supply infrastructure make it relatively immune to supply shortages.	Water resources are plentiful, reliable, and easily extracted.			
Greater than 8.0	Although operational and financial considerations may allow a long-term ILI greater than 8.0, such a level of leakage is not an effective utilization of water as a resource. Setting a target level greater than 8.0 - other than as an incremental goal to a smaller long-term target - is discouraged.					
Less than 1.0	If the calculated Infrastructure Leakage Index (ILI) value for your system is 1.0 or less, two possibilities exist. a) you are maintaining your leakage at low levels in a class with the top worldwide performers in leakage control. b) A portion of your data may be flawed, causing your losses to be greatly understated. This is likely if you calculate a low ILI value but do not employ extensive leakage control practices in your operations. In such cases it is beneficial to validate the data by performing field measurements to confirm the accuracy of production and customer meters, or to identify any other potential sources of error in the data.					

Appendix H: Water Waste Section 3.40.120 of the Conditions of Service Chapter of the Sacramento County Water Agency Code

damaging to the Agency or its customers. Service may be shut off without notice; however the Agency shall notify the customer immediately of the reasons for the discontinuance, and the corrective action to be taken by the customer before service will be restored.

D. Fraudulent Use of Service. When this Agency has discovered that a customer has obtained water service by fraudulent means, or has diverted the water service for unauthorized use, the service to that customer may be discontinued without notice. Service will not be restored until the customer has complied with all these regulations and any reasonable requirement of the Agency, and the Agency has been reimbursed for the full amount of the service rendered and the actual cost incurred by the Agency by reason of the fraudulent use and has paid any applicable fines as authorized in Section 3.50.105.

E. Repeated Violations. Repeated violations of this section shall be cause for the Agency to permanently withhold water service. (WAO-0069 § 1, 2007)

3.40.110 Reestablishment of Discontinued Service.

A. The customer shall pay fees in accordance with Section 3.50.030 each time water service is discontinued as authorized by Section 3.40.100.

B. Agency or County employees dispatched to disconnect or discontinue water service are not authorized to receive payment for water services or connection charges.

C. If the cause of the disconnection or discontinuance has been corrected, all regulations relating to water service have been complied with, and all applicable fees paid, the Agency shall restore service to the customer as promptly as possible. (WAO-0069 \S 1, 2007)

3.40.120 Water Waste.

A. No person or persons shall use, or cause to be used, Agency water in a negligent or wasteful manner, or in violation of the Water Shortage Contingency Plan.

B. No person or persons shall allow water to run off property excessively; maintain faulty or improperly adjusted sprinklers, leaking fixtures, or distributing devices so that Agency water is wasted.

C. Continued or repeated waste of Agency water shall be sufficient cause for the Agency to meter the customer's service. (WAO-0069 § 1, 2007; WAO-0083 § 1, 2014)

3.40.130 Unauthorized Use of Agency Water.

No person shall:

A. make or cause to be made an unauthorized connection to the Agency's water system;

B. open or cause to be opened any Agency valve, hydrant, corporation stop, or curb stop;

C. in any other manner obtain unauthorized use of Agency water;

D. willfully break, damage, destroy, deface or tamper with any Agency water main, valve, hydrant, corporation stop, curb stop or equipment;

E. use water in a wasteful or negligent manner, or in violation of the Water Shortage Contingency Plan.

Appendix I: Water Shortage Contingency Resolution and Plan

SACRAMENTO COUNTY WATER AGENCY

RESOLUTION NO. WA-2860

REVISE THE SACRAMENTO COUNTY WATER AGENCY WATER SHORTAGE CONTINGENCY PLAN AND AUTHORIZE THE AGENCY ENGINEER TO IMPLEMENT CONSERVATION MEASURES THERETO

WHEREAS, the Sacramento region is experiencing its third consecutive year of below average rainfall and water supply storage in Folsom Reservoir is at nineteen percent of capacity and dropping; and

WHEREAS, the Sacramento County Water Agency (SCWA) adopted a Water Shortage Contingency Plan in November 2012, prescribing actions to be taken to respond to the event of low water supply conditions; and

WHEREAS, revisions to the Water Shortage Contingency Plan (Shortage Plan) are necessary to accurately reflect the intent of the plan, respond to current conditions, and align with recent recommendations from the Regional Water Authority;

WHEREAS, the Agency Engineer has determined that due to the persistent dry weather conditions, below average rainfall, and historically low water supply in storage in Folsom Reservoir, water supply conditions may deviate from normal and inhibit the ability of SCWA to meet customer demand;

WHEREAS, the uncertainty of water supply conditions require the Agency Engineer be accorded the authority to identify and implement the Stages of the Shortage Plan, as revised, as weather conditions, water demand, and water supply change;

NOW, THEREFORE, be it resolved that the Board of Directors

1. Adopts the proposed revisions to the Shortage Plan; and,

2. Supports the Agency's request to the SCWA service area for voluntary 20% water conservation; and,

3. Authorizes the Agency Engineer to identify and implement subsequent conservation measures in accordance with criteria identified in the Shortage Plan, as revised, and to do that which is necessary to further carry out the intent and purpose of this resolution.

On a motion by Director Nottoli, seconded by Director Serna, the foregoing Resolution was passed and adopted by the Board of Directors of the Sacramento County Water Agency this 28th day of January, 2014, by the following vote, to wit:

AYES: Directors, MacGlashan, Nottoli, Peters, Serna, Yee

NOES: Directors, None

ABSENT: Directors, None



Chairperson of the Board of Directors of the

Sacramento County Water Agency

Cynde Clerk of the Board of Supervisors and Ex Officio Secretary to the Board of Directors of the Sacramento County Water Agency

in accordance with Section 25103 of the Government Code of the State of California a copy of the document has been delivered to the Chairman on Deputy Clerk, Board of Directors

FILED BOARD OF DIRECTORS

JAN 28 2014 Loe OF THE BOARD

(Revised January 2014)

The Sacramento County Water Agency (Agency) has developed this Water Shortage Contingency Plan (WSCP) to respond to water shortages resulting from reduced source water allocations, mechanical failures, or other circumstances that inhibit the Agency's ability to deliver sufficient water to meet customer demand. Should the Agency Engineer determine that water supply conditions will deviate from Normal and inhibit the ability of the Agency to meet customer demand, the Agency Engineer shall identify the Stage of water supply conditions and implement the associated conservation measures identified in this Water Shortage Contingency Plan to meet customer demand and ensure essential provision of water for Health and Safety purposes. Once implemented, these requirements will be in effect until the Agency Engineer determines that water supply conditions are returned to Normal and adequate to allow water restrictions to be reduced or rescinded.

Stages of Action

Table 1 presents stage definitions and corresponding shortage triggers which are used to enact each stage. Detailed descriptions of the Conservation Stages are included further in this document.

Table 1 - Conservation Stages to Address Water Supply Shortages					
Stage	Water Supply Conditions	Conservation Target (%)			
Normal	Normal Water Supply	NA			
1	Water Alert – probability that supplies will not be able to meet all demands	Up to 10%			
2	Water Warning - supplies not meeting current demands	Up to 25%			
3	Water Crisis - major failure of a supply, storage, or distribution system; supplies not meeting current demands	Up to 50%			
4	Water Emergency - major failure of a supply, storage, or distribution; supplies not meeting current demands	Greater than 50%			

(Revised January 2014)

NORMAL – Normal Water Use

During the Normal stage the following conservation measures and regulations are in effect within areas served by the Water Agency. Failure thereto constitutes 'water waste', and is an unauthorized use of Agency water pursuant to Water Agency Code Sections 3.40.120 and 3.40.130.

• **Residential and Commercial Irrigation Schedule** - Irrigation is permitted based on the last digit of customer addresses, in accordance with the schedule below:

Addresses Ending In	Watering Days	Time of Day			
Even Number (0, 2, 4, 6, 8)	Wednesday, Friday, Sunday	Between 8 n m and 6 a m			
Odd Number (1, 3, 5, 7, 9)	Tuesday, Thursday, Saturday	berween o p.m. und o d.m.			

Normal Stage - Irrigation Schedule

- Irrigation Runoff Excess runoff of irrigation water onto driveways, sidewalks, gutters, streets, into roadside ditches, or onto adjacent properties is discouraged.
- Hose Nozzles Required Use automatic shutoff nozzles on all hoses.
- Washing Down with Water to Clean Impervious Surfaces Prohibited Do not use water to wash down or clean driveways, sidewalks, patios, parking lots or streets.
- Water Leak Repair Requirements Repair leaking pipes, fixtures and sprinklers promptly.
- **Pool, Pond and Fountain Restrictions** All swimming pools, ponds and fountains must be equipped with recirculating water pumps.
- Serving of Water in Restaurants Restaurants to serve water to customers only upon request.
- Customers are encouraged to use these additional measures to conserve:
 - Install drought tolerant, low- water use, landscaping.
 - Use high efficiency plumbing fixtures and appliances
 - Only wash full loads when running laundry and dish washing appliances.

Sacramento County Water Agency Water Shortage Contingency Plan (Revised January 2014) Use a bucket, rather than a hose, when washing a car.

(Revised January 2014)

STAGE 1 – Water Alert

During Stage 1 conditions a Water Alert will be issued by the Agency to its customers requesting a reduction in water use of **up to10%**. Additionally, the following regulations go into effect during Stage 1, which are in addition to, or supersede where conflicting, those in effect during the Normal stage:

• Irrigation Restrictions – Irrigation is permitted <u>3 days per week</u> based on the last digit of customer addresses, in accordance with the below schedule:

Addresses Ending In	Watering Days	Permitted Irrigation Time of Day
Even Number (0, 2, 4, 6, 8)	Wednesday, Friday, Sunday	Between 8 n m and 6 a m
Odd Number (1, 3, 5, 7, 9)	Tuesday, Thursday, Saturday	

STAGE 1 – Irrigation Schedule

STAGE 2 – Water Warning

During Stage 2 conditions a Water Warning will be issued by the Agency to its customers requesting a reduction in water use of **up to 25%**. The following regulations are in effect during Stage 2, and are in addition to, or supersede where conflicting, those in effect during the Normal stage and Stage 1:

• Irrigation Restrictions – Irrigation is permitted <u>2 days per week</u> based on the last digit of customer addresses, in accordance with the below schedule:

Addresses Ending In	Watering Days	Permitted Irrigation Time of Day
Even Number	Wednesday, Sunday	
(0, 2, 4, 6, 8)		Between 8 n m, and 6 a m
Odd Number	Tuesday, Saturday	
(1, 3, 5, 7, 9)		

STAGE 2 – Irrigation Schedule

• **Pond and Fountain Restrictions**– Use of Water Agency potable supply for ornamental ponds , fountains, streams and other water features is prohibited.

(Revised January 2014)

STAGE 3 – Water Crisis

During Stage 3 conditions a Water Crisis will be issued by the Agency to its customers requesting a reduction in water use of **up to 50%**. The following regulations go into effect during Stage 3, which are either in addition to, or supersede, those in effect during the Normal stage and Stages 1 and 2:

• Irrigation Restrictions – Irrigation is permitted <u>1 day per week</u> based on the last digit of customer addresses, in accordance with the below schedule:

Addresses Ending In	Watering Days	Permitted Irrigation Time of Day
Even Number	Sunday	
(0, 2, 4, 6, 8)		Between 8 n m and 6 a m
Odd Number	Saturday	berween o p.m. and o d.m.
(1, 3, 5, 7, 9)		

- **Pool Restrictions** Potable water supplied by the Water Agency may not be used to fill or add water to swimming pools.
- **Residential Car Washing** Potable water supplied by the Agency may not be used for residential car washing and charity fund-raising car wash activities.

<u>STAGE 4</u>– Water Emergency

During Stage 4 conditions a Water Emergency will be issued by the Agency to its customers requesting a reduction in water use of **greater than 50%**. The following regulations go into effect during Stage 4, which are either in addition to, or supersede where conflicting, those in effect during the Normal stage and Stages 1, 2 and 3:

- Irrigation Restrictions All residential and commercial outdoor irrigation is prohibited.
- New Connection Moratorium New connections to the Water Agency's system are prohibited.

Appendix J: Climate Change Vulnerability Assessment

Question	Response	Priority	Justification
I. Water Demand	<u>.</u>	<u>.</u>	·
Are there major industries that require cooling/process water in your planning region?	Yes	Low	The largest water-intensive industry in the Region is agriculture.
Does water use vary by more than 50% seasonally in parts of your region?	Yes	High	Summer months are as much as 50% higher than the average month and winter months are as much as 50% lower than the average month. Warming temperatures and increased extreme events will likely exacerbate summer demand.
Are crops grown in your region climate sensitive? Would shifts in daily heat patterns, such as how long heat lingers before nighttime cooling, be prohibitive for some crops?	Yes	High	A variety of crop types are grown in the Region, including row crops, tree crops, and irrigated grains. Agricultural production in Sacramento County has a value of approximately \$300 million dollars (Sacramento County Department of Agriculture 2002). Many of these crops are sensitive to climate change (Sacramento County Climate Action Plan 2011).
Do groundwater supplies in your region lack resiliency after drought events?	No	Low	Groundwater supplies in the Region have proved resilient after past drought events.
Are water use curtailment measures effective in your region?	Yes	Low	Water conservation BMPs are used effectively throughout the Region, as detailed in various UWMPs.
Are some in-stream flow requirements in your region either currently insufficient to support aquatic life, or occasionally unmet?	No	Low	Minimum in-stream flow requirements are generally met in both the American River and the Sacramento River. However, climate change is expected to place additional stress on summer low flows.
II. Water Supply	<u>.</u>	<u>L</u>	
Does a portion of the water supply in your region come from snowmelt?	Yes	Medium	American River runoff from April through July is dominated by snowmelt. This provides water supply throughout the dry summer and fall.
Does part of your region rely on water diverted from the Delta, imported from the Colorado River, or imported from other climate-sensitive systems outside your region?	No	N/A	Currently, there is no use of imported water in the Region, and use of this supply is not anticipated in the future.
Does part of your region rely on coastal aquifers? Has salt intrusion been a problem in the past?	No	N/A	There are no coastal aquifers within the Region.
Would your region have difficulty in storing carryover supply surpluses from year to year?	Yes	Medium	Current regional reservoir operating conditions limit storage opportunities during winter runoff season; increased winter runoff would not necessarily translate into increased storage of water leading into the spring season. In the ARB Region, the ratio of storage to annual runoff is approximately 0.64, indicating that this is likely to be the case (Roos 2005). In addition, less spring snowmelt could make it more difficult to refill winter reservoir flood control space during late spring and early summer of many years, which could potentially reduce the amount of surface water available during the dry season (Roos 2005). Conversely, storage capture of snowmelt runoff during these seasons likely would translate into reductions in storage capture and, likewise, reductions in water supply for warm season delivery.
Has your region faced a drought in the past during which it failed to meet local water demands?	No	High	The Region has not failed to meet local water demands during drought years. However, the potential effects of climate change make this a possibility. The Region is projected to have more frequent, longer, and more-extreme heat waves and longer periods of drought (Sacramento County 2011).
Does your region have invasive species management issues at your facilities, along conveyance structures, or in habitat areas?	Yes	Medium	Invasive species, including various nonnative fish and plant species, are an ongoing issue within the Region (Appendix B).

 Table C-1. Climate Change Vulnerability Checklist and Prioritization

Appendix C Climate Change Vulnerabilities and Water Agency Mitigation Actions

Vulnera	bility
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Increased potential for summer water shortage.

Increased potential for summer water shortage.

Increased potential for summer water shortage.

N/A

Potential for demand hardening and limited opportunities for further conservation.

Reduced summer low flows.

Reduced water supply reliability.

N/A

N/A

Reduced water supply reliability.

Reduced water supply reliability.

Invasive species impacts on infrastructure.

Question	Response	Priority	Justification			
III. Water Quality						
Are increased wildfires a threat in your region? If so, does your region include reservoirs with fire-susceptible vegetation nearby that could pose a water quality concern from increased erosion?	No	Low	Increased frequency of wildfires is a relatively low threat in this Region (CEC 2011). However, Folsom reservoir could be vulnerable to water quality impairments resulting from increased erosion.			
Does part of your region rely on surface water bodies with current or recurrent water quality issues related to eutrophication, such as low dissolved oxygen or algal blooms? Are there other water quality constituents potentially exacerbated by climate change?	Yes	High	Surface water bodies in the Region do not have current water quality issues related to eutrophication. However, surface water temperature in the Region is highly likely to rise and adversely impact beneficial uses in the Region. Additionally, several water bodies have beneficial uses impaired by invasive species, which are likely to be exacerbated by climate change (State Water Resources Control Board 2012).			
Are seasonal low flows decreasing for some waterbodies in your region? If so, are the reduced low flows limiting the waterbodies' assimilative capacity?	No	Medium	Seasonal low-flows are not currently decreasing; however this is a potential impact from climate change.			
Are there beneficial uses designated for some water bodies in your region that cannot always be met due to water quality issues?	Yes	Low	Beneficial uses on surface water bodies throughout the Region are listed as impaired on the CWA 303 (d) list for various water quality constituents, including mercury and pesticides. Climate change may increase impairments of beneficial uses in the Region's surface water bodies.			
Does part of your region currently observe water quality shifts during rain events that impact treatment facility operation?	Yes	Medium	Disinfectant byproduct precursors tend to spike during storm events (DWR 2001). Storm events currently contribute to high turbidity in area rivers and streams (Sacramento County, et. al. 2010).			
IV. Sea-Level Rise	<u>.</u>		· · · · · · · · · · · · · · · · · · ·			
Has coastal erosion already been observed in your region?	No	N/A	The Region does not contain any coastal areas.			
Are there coastal structures, such as levees or breakwaters, in your region?	Yes	High	There are tidally influenced levees on the Sacramento River on the western boundary of the Region.			
Is there significant coastal infrastructure, such as residences, recreation, water and wastewater treatment, tourism, and transportation) at less than 6 feet above mean sea level in your region?	Yes	Medium	There is infrastructure adjacent to the lower Sacramento River that is at or near 6 feet above mean sea level, including transportation (Interstate 5), residences, and recreational facilities.			
Are there climate-sensitive low-lying coastal habitats in your region?	No	N/A	There are no coastal habitats within the Region.			
Are there areas in your region that currently flood during extreme high tides or storm surges?	No	Medium	The areas adjacent to the lower Sacramento River do not currently flood during extreme high tides alone, but are threatened when extreme high tides occur in conjunction with extreme storm events.			
Is there land subsidence in the coastal areas of your region?	Yes	Low	Land has subsided from 0 to 10 feet below mean sea level in limited areas along the lower Sacramento River in the southwestern portion of the Region (USGS 2000).			
Do tidal gauges along the coastal parts of your region show an increase over the past several decades?	Yes	Low	In recent decades, the mean sea level trend has been an increase of 2.08mm/year at the nearest tidal gage to the Region (Port Chicago, located in the San Francisco Bay) (NOAA 2012).			

Table C-1. Climate Change Vulnerability Checklist and Prioritization (contd.)

Vulnerability

Reduced beneficial use of water from degraded water quality.

N/A

Increased tidal flood risk.

N/A

Increased tidal flood risk.

Question	Response	Priority	Justification
V. Flooding	-	-	•
Does critical infrastructure in your region lie within the 200- year floodplain? DWR's best available floodplain maps are available at: http://www.water.ca.gov/floodmgmt/lrafmo/fmb/fes/best_availa ble_maps/.	Yes	High	Major Infrastructure in floodplains includes major Interstate highways and water/wastewater infrastructure (DWR 2012b).
Does part of your region lie within the Sacramento-San Joaquin Drainage District?	Yes	High	The Region lies entirely within the Sacramento-San Joaquin Drainage District.
Does aging critical flood protection infrastructure exist in your region?	Yes	High	Major metropolitan areas, small communities, and rural areas are protected by aging levees, weirs, bypasses, and other flood management infrastructure. An inventory of the infrastructure deficiencies is detailed in the Flood Control System Status Report (DWR 2011).
Have flood control facilities (such as impoundment structures) been insufficient in the past?	Yes	Medium	Portions of the Region are vulnerable to five flood types: localized flooding, riverine flooding, flash flooding, levee overtopping/failure, and dam failure.
Are wildfires a concern in parts of your region?	Yes	Low	Wildfires are a low priority concern, and, per Cal-Adapt are not likely to become a substantially higher priority concern in the near future.
VI. Ecosystem and Habitat Vulnerability	÷	÷	•
Does your region include inland or coastal aquatic habitats vulnerable to erosion and sedimentation issues?	Yes	Medium	Wetland and riverine habitats are vulnerable to erosion and sedimentation issues.
Does your region include estuarine habitats that rely on seasonal freshwater flow patterns?	Yes	Low	The Delta portion of the Region relies on seasonal freshwater flow patterns.
Do climate-sensitive fauna or flora populations live in your region?	Yes	High	Climate sensitive populations include salmonid species, migratory bird species, and wetland species (CEC 2008)
Do endangered or threatened species exist in your region? Are changes in species distribution already being observed in parts of your region?	Yes	High	Yes, a number of state-listed and federally listed threatened and endangered species exist in the Region (Appendix B). Changes in aquatic and terrestrial ecosystems have already been observed (DWR 2009).
Does the region rely on aquatic or water-dependent habitats for recreation or other economic activities?	Yes	Low	Boating, hunting, fishing, and bird watching are important recreational and economic activities that rely on aquatic or water-dependent habitats in the Region.
Are there rivers in your region with quantified environmental flow requirements or known water quality/quantity stressors to aquatic life?	Yes	High	The American River and the Lower Sacramento River have quantified environmental flow requirements. The majority of waters in the Region are listed on the CWA 303(d) list for impairments to aquatic habitat beneficial uses.
Do estuaries, coastal dunes, wetlands, marshes, or exposed beaches exist in your region? If so, are coastal storms possible/frequent in your region?	Yes	Low	The Bay-Delta estuary, marshes, and seasonal and emergent wetland habitats exist in the Region, particularly in the southwestern portion. However, coastal storms are not frequent in the Region.
Does your region include one or more of the habitats described in the Endangered Species Coalition's Top 10 habitats vulnerable to climate change (http://www.itsgettinghotoutthere.org/)?	Yes	High	The Region contains portions of two Endangered Species Coalition's Top 10 vulnerable habitats: the Bay-Delta and the Sierra Nevada.
Are there areas of fragmented estuarine, aquatic, or wetland wildlife habitat within your region? Are there movement corridors for species to naturally migrate? Are there infrastructure projects planned that might preclude species movement?	Yes	Medium	The combined effect of various stressors has fragmented and/or eliminated extensive areas of wetland and riparian habitat and impeded movement corridors (DWR 2012b).

Table C-1. Climate Change Vulnerability Checklist and Prioritization (contd.)

Vulnerability

Increase riverine flood risk.

Increase riverine flood risk.

Increased adverse impacts to habitats and species.

Section C Climate Change Vulnerabilities and Water Agency Mitigation Actions

Table C-1. Climate Change Vulnerability Checklist and Prioritization (contd.)

Question	Response	Priority	Justification
VII. Hydropower	-	-	-
Is hydropower a source of electricity in your region?	Yes	Low	Folsom Lake and Camp Far West Reservoir provide hydroelectric power for the Region.
Are energy needs in your region expected to increase in the future? If so, are there future plans for hydropower generation facilities or conditions for hydropower generation in your region?	Yes	Low	Based on data collected by SACOG in 2012, the Region's population is expected to continue to grow significantly between now and 2025. Sacramento County is expected to grow about 37% between 2008 and 2035, Placer County is expected to grow about 49%, and El Dorado County is expected to grow about 24%. As a whole, the three-county Region (excluding the Tahoe basin) is expected to grow about 38%, with the most aggressive growth occurring between 2020 and 2035 (Section 2.5.2).
Kev:			

ARB = American River Basin

Bay-Delta = Sacramento-San Joaquin River Delta and San Francisco Bay

BMP = Best Management Practices

CEC = California Energy Commission

CWA = Clean Water Act

Delta = Sacramento-San Joaquin River Delta

DWR = California Department of Water Resources

IRWMP = Integrated Regional Water Management Plan

N/A = not available/ not applicable

NOAA = National Oceanic and Atmospheric Administration

SACOG = Sacramento Area Council of Governments

USGS = U.S. Geological Survey

UWMP = Urban Water Management Plan

Vulnerability

Potential decrease in hydropower potential.



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