

**Water Conservation Act of 2009
SB X7-7
Verification Forms**

Antelope Valley District

**2015 Urban Water Management Plan
Appendix I**



SB X7-7 Table-1: Baseline Period Ranges			
Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	1,175	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period ^{1, 2}	10	Years
	Year beginning baseline period range	1996	
	Year ending baseline period range ³	2005	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2003	
	Year ending baseline period range ⁴	2007	
¹ If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. ² The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.			
³ The ending year must be between December 31, 2004 and December 31, 2010.			
⁴ The ending year must be between December 31, 2007 and December 31, 2010.			

SB X7-7 Table 2: Method for Population Estimates	
Method Used to Determine Population (may check more than one)	
☐	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
☐	2. Persons-per-Connection Method
☐	3. DWR Population Tool
☒	4. Other DWR recommends pre-review
NOTES: Cal Water uses a population estimation methodology based on overlaying Census Block data from the 2000 and 2010 Censuses with the District's service area. LandView 5 and MARPLOT software are used with these data to estimate population per dwelling unit for 2000 and 2010. The per dwelling unit population estimates are then combined with Cal Water data on number of dwelling units served to estimate service area population for non-Census years. Cal Water is electing to use the population estimates produced by its methodology because the Population Tool may not be an accurate method for rural and sparsely populated areas, according to DWR documentation.	

SB X7-7 Table 3: Service Area Population		
Year		Population
10 to 15 Year Baseline Population		
Year 1	1996	3,026
Year 2	1997	3,046
Year 3	1998	3,055
Year 4	1999	3,091
Year 5	2000	3,106
Year 6	2001	3,117
Year 7	2002	3,124
Year 8	2003	3,104
Year 9	2004	3,250
Year 10	2005	3,304
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	3,104
Year 2	2004	3,250
Year 3	2005	3,304
Year 4	2006	3,321
Year 5	2007	3,359
2015 Compliance Year Population		
2015		3,390

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

Baseline Year <i>Fm SB X7-7 Table 3</i>		Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Annual Gross Water Use
			Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	
10 to 15 Year Baseline - Gross Water Use								
Year 1	1996	1,215			-		-	1,215
Year 2	1997	1,232			-		-	1,232
Year 3	1998	1,057			-		-	1,057
Year 4	1999	1,212			-		-	1,212
Year 5	2000	1,287			-		-	1,287
Year 6	2001	1,245			-		-	1,245
Year 7	2002	1,244			-		-	1,244
Year 8	2003	1,185			-		-	1,185
Year 9	2004	1,359			-		-	1,359
Year 10	2005	1,308			-		-	1,308
<i>Year 11</i>	0	-			-		-	-
<i>Year 12</i>	0	-			-		-	-
<i>Year 13</i>	0	-			-		-	-
<i>Year 14</i>	0	-			-		-	-
<i>Year 15</i>	0	-			-		-	-
10 - 15 year baseline average gross water use								1,234
5 Year Baseline - Gross Water Use								
Year 1	2003	1,185			-		-	1,185
Year 2	2004	1,359			-		-	1,359
Year 3	2005	1,308			-		-	1,308
Year 4	2006	1,258			-		-	1,258
Year 5	2007	1,307			-		-	1,307
5 year baseline average gross water use								1,284
2015 Compliance Year - Gross Water Use								
2015		541	-		-		-	541
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								

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

Complete one table for each source.

Name of Source	Wells			
This water source is:				
☒	The supplier's own water source			
☐	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1996	1,015		1,015
Year 2	1997	1,002		1,002
Year 3	1998	870		870
Year 4	1999	976		976
Year 5	2000	1,058		1,058
Year 6	2001	1,043		1,043
Year 7	2002	1,010		1,010
Year 8	2003	739		739
Year 9	2004	703		703
Year 10	2005	659		659
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
5 Year Baseline - Water into Distribution System				
Year 1	2003	739		739
Year 2	2004	703		703
Year 3	2005	659		659
Year 4	2006	541		541
Year 5	2007	956		956
2015 Compliance Year - Water into Distribution System				
2015		432		432
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				

SB X7-7 Table 4-A: Volume Entering the Distribution				
Name of Source		Antelope Valley East Kern (AVEK)		
This water source is:				
☐	The supplier's own water source			
☒	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional</i> (+/-)	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,996	199.886973		200
Year 2	1,997	230.963565		231
Year 3	1,998	187.26304		187
Year 4	1,999	235.701844		236
Year 5	2,000	229.294607		229
Year 6	2,001	201.099094		201
Year 7	2,002	233.80791		234
Year 8	2,003	445.833678		446
Year 9	2,004	656.054275		656
Year 10	2,005	649.406007		649
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
5 Year Baseline - Water into Distribution System				
Year 1	2,003	445.833678		446
Year 2	2,004	656.054275		656
Year 3	2,005	649.406007		649
Year 4	2,006	717.890852		718
Year 5	2,007	351.048182		351
2015 Compliance Year - Water into Distribution System				
2015	109			109
* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document				

SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1996	3,026	1,215	358
Year 2	1997	3,046	1,232	361
Year 3	1998	3,055	1,057	309
Year 4	1999	3,091	1,212	350
Year 5	2000	3,106	1,287	370
Year 6	2001	3,117	1,245	356
Year 7	2002	3,124	1,244	355
Year 8	2003	3,104	1,185	341
Year 9	2004	3,250	1,359	373
Year 10	2005	3,304	1,308	353
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	
10-15 Year Average Baseline GPCD				353
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2003	3,104	1,185	341
Year 2	2004	3,250	1,359	373
Year 3	2005	3,304	1,308	353
Year 4	2006	3,321	1,258	338
Year 5	2007	3,359	1,307	347
5 Year Average Baseline GPCD				351
2015 Compliance Year GPCD				
2015		3,390	541	142

SB X7-7 Table 6: Gallons per Capita per Day <i>Summary From Table SB X7-7 Table 5</i>	
10-15 Year Baseline GPCD	353
5 Year Baseline GPCD	351
2015 Compliance Year GPCD	142

SB X7-7 Table 7: 2020 Target Method		
<i>Select Only One</i>		
Target Method		Supporting Documentation
☒	Method 1	SB X7-7 Table 7A
☐	Method 2	SB X7-7 Tables 7B, 7C, and 7D <i>Contact DWR for these tables</i>
☐	Method 3	SB X7-7 Table 7-E
☐	Method 4	Method 4 Calculator

SB X7-7 Table 7-A: Target Method 1 20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
353	282

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
351	333	282	282
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

SB X7-7 Table 8: 2015 Interim Target GPCD		
Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	2015 Interim Target GPCD
282	353	318

SB X7-7 Table 9: 2015 Compliance

Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments <i>(in GPCD)</i>					2015 GPCD <i>(Adjusted if applicable)</i>	Did Supplier Achieve Targeted Reduction for 2015?
		Enter "0" if Adjustment Not Used			TOTAL Adjustments	Adjusted 2015 GPCD		
		Extraordinary Events	Weather Normalization	Economic Adjustment				
142	318	-	-	-	-	142	142	YES