

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

Chico-Hamilton City 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	30,970	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	1999	
	Year ending baseline period range ³	2008	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2004	
	Year ending baseline period range ⁴	2008	
<p>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.</p>			
<p>³ The ending year must be between December 31, 2004 and December 31, 2010.</p>			
<p>⁴ The ending year must be between December 31, 2007 and December 31, 2010.</p>			

SB X7-7 Table 2: Method for Population Estimates	
Method Used to Determine Population (may check more than one)	
<input type="checkbox"/>	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
<input type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input checked="" type="checkbox"/>	4. Other DWR recommends pre-review
<p>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 also estimated service area population using DWR's Population Tool. The estimates prepared using Cal Water's methodology and DWR's Population Tool differed by less than one percent. Cal Water is electing to use the population estimates produced by its methodology in order to maintain consistency with population projections it has prepared in other planning documents and reports.</p>	

SB X7-7 Table 3: Service Area Population		
Year		Population
10 to 15 Year Baseline Population		
Year 1	1999	83,741
Year 2	2000	85,071
Year 3	2001	86,217
Year 4	2002	87,697
Year 5	2003	88,968
Year 6	2004	90,793
Year 7	2005	92,204
Year 8	2006	93,300
Year 9	2007	94,305
Year 10	2008	94,834
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2004	90,793
Year 2	2005	92,204
Year 3	2006	93,300
Year 4	2007	94,305
Year 5	2008	94,834
2015 Compliance Year Population		
2015		102,155

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	1999	26,269			-		-	26,269
Year 2	2000	27,301			-		-	27,301
Year 3	2001	28,689			-		-	28,689
Year 4	2002	29,660			-		-	29,660
Year 5	2003	28,573			-		-	28,573
Year 6	2004	31,529			-		-	31,529
Year 7	2005	29,992			-		-	29,992
Year 8	2006	29,897			-		-	29,897
Year 9	2007	30,626			-		-	30,626
Year 10	2008	30,970			-		-	30,970
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 year baseline average gross water use								29,351
5 Year Baseline - Gross Water Use								
Year 1	2004	31,529			-		-	31,529
Year 2	2005	29,992			-		-	29,992
Year 3	2006	29,897			-		-	29,897
Year 4	2007	30,626			-		-	30,626
Year 5	2008	30,970			-		-	30,970
5 year baseline average gross water use								30,603
2015 Compliance Year - Gross Water Use								
2015		18,227	-		-		-	18,227
* 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:				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1999	26,269		26,269
Year 2	2000	27,301		27,301
Year 3	2001	28,689		28,689
Year 4	2002	29,660		29,660
Year 5	2003	28,573		28,573
Year 6	2004	31,529		31,529
Year 7	2005	29,992		29,992
Year 8	2006	29,897		29,897
Year 9	2007	30,626		30,626
Year 10	2008	30,970		30,970
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
5 Year Baseline - Water into Distribution System				
Year 1	2004	31,529		31,529
Year 2	2005	29,992		29,992
Year 3	2006	29,897		29,897
Year 4	2007	30,626		30,626
Year 5	2008	30,970		30,970
2015 Compliance Year - Water into Distribution System				
	2015	18,227		18,227
* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document				
NOTES:				

SB X7-7 Table 4-A: Volume Entering the Distribution				
Name of Source		Source 2		
This water source is:				
<input type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,999			0
Year 2	2,000			0
Year 3	2,001			0
Year 4	2,002			0
Year 5	2,003			0
Year 6	2,004			0
Year 7	2,005			0
Year 8	2,006			0
Year 9	2,007			0
Year 10	2,008			0
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
5 Year Baseline - Water into Distribution System				
Year 1	2,004			0
Year 2	2,005			0
Year 3	2,006			0
Year 4	2,007			0
Year 5	2,008			0
2015 Compliance Year - Water into Distribution System				
2015				0
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				

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	1999	83,741	26,269	280
Year 2	2000	85,071	27,301	287
Year 3	2001	86,217	28,689	297
Year 4	2002	87,697	29,660	302
Year 5	2003	88,968	28,573	287
Year 6	2004	90,793	31,529	310
Year 7	2005	92,204	29,992	290
Year 8	2006	93,300	29,897	286
Year 9	2007	94,305	30,626	290
Year 10	2008	94,834	30,970	292
<i>Year 11</i>	0	-	-	
<i>Year 12</i>	0	-	-	
<i>Year 13</i>	0	-	-	
<i>Year 14</i>	0	-	-	
<i>Year 15</i>	0	-	-	
10-15 Year Average Baseline GPCD				292
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2004	90,793	31,529	310
Year 2	2005	92,204	29,992	290
Year 3	2006	93,300	29,897	286
Year 4	2007	94,305	30,626	290
Year 5	2008	94,834	30,970	292
5 Year Average Baseline GPCD				294
2015 Compliance Year GPCD				
2015		102,155	18,227	159

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

10-15 Year Baseline GPCD	292
5 Year Baseline GPCD	294
2015 Compliance Year GPCD	159

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

SB X7-7 Table 7-A: Target Method 1 20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
292	234

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target			
5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
294	279	234	234
<p>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.</p>			

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
234	292	263

SB X7-7 Table 9: 2015 Compliance								
Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments (in GPCD)					2015 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2015?
		Enter "0" if Adjustment Not Used			TOTAL Adjustments	Adjusted 2015 GPCD		
		Extraordinary Events	Weather Normalization	Economic Adjustment				
159	263	-	-	-	-	159	159	YES