Water Conservation Act of 2009
SB X7-7
Verification Forms

Hermosa-Redondo 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	13,964	Acre Feet
	2008 total volume of delivered recycled water	164	Acre Feet
	2008 recycled water as a percent of total deliveries	1.18%	Percent
	Number of years in baseline period[1, 2]	10	Years
	Year beginning baseline period range	1995	
	Year ending baseline period range[3]	2004	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	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 also estimated service area population using DWR's Population Tool. The estimates prepared using Cal Water's methodology and DWR's Population Tool were nearly identifal, differing by less than half a 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.

SB X7-7 Table 3: Service Area Population		
Year		Population
10 to 15 Year Baseline Population		
Year 1	1995	89,608
Year 2	1996	89,685
Year 3	1997	89,815
Year 4	1998	90,020
Year 5	1999	90,429
Year 6	2000	89,637
Year 7	2001	90,795
Year 8	2002	91,174
Year 9	2003	91,375
Year 10	2004	92,164
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2003	91,375
Year 2	2004	92,164
Year 3	2005	92,753
Year 4	2006	93,232
Year 5	2007	93,769
2015 Compliance Year Population		
2015		95,774

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

Baseline Year *Fm SB X7-7 Table 3*		Volume Into Distribution System *This column will remain blank until SB X7-7 Table 4-A is completed.*	Deductions					Annual Gross Water Use
			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.*	
10 to 15 Year Baseline - Gross Water Use								
Year 1	1995	14,202			44		-	14,158
Year 2	1996	14,715			1		-	14,715
Year 3	1997	15,069			134		-	14,935
Year 4	1998	14,288			140		-	14,148
Year 5	1999	14,916			239		-	14,678
Year 6	2000	15,266			613		-	14,653
Year 7	2001	14,902			540		-	14,363
Year 8	2002	15,279			437		-	14,842
Year 9	2003	14,678			625		-	14,053
Year 10	2004	14,651			493		-	14,159
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 year baseline average gross water use								**14,470**
5 Year Baseline - Gross Water Use								
Year 1	2003	14,678			625		-	14,053
Year 2	2004	14,651			493		-	14,159
Year 3	2005	14,458			491		-	13,967
Year 4	2006	14,267			481		-	13,786
Year 5	2007	14,429			626		-	13,803
5 year baseline average gross water use								**13,954**
2015 Compliance Year - Gross Water Use								
2015		10,765	-		1,294		-	**9,471**

* 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 *Fm SB X7-7 Table 3*		Volume Entering Distribution System	Meter Error Adjustment* *Optional (+/-)*	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1995	342		342
Year 2	1996	3		3
Year 3	1997	447		447
Year 4	1998	345		345
Year 5	1999	717		717
Year 6	2000	2,206		2,206
Year 7	2001	1,916		1,916
Year 8	2002	1,440		1,440
Year 9	2003	2,997		2,997
Year 10	2004	2,280		2,280
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	2,997		2,997
Year 2	2004	2,280		2,280
Year 3	2005	2,170		2,170
Year 4	2006	1,579		1,579
Year 5	2007	1,073		1,073
2015 Compliance Year - Water into Distribution System				
2015		1,734		1,734

** 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	West Basin MWD			
This water source is:				
☐	The supplier's own water source			
☑	A purchased or imported source			
Baseline Year *Fm SB X7-7 Table 3*		Volume Entering Distribution System	Meter Error Adjustment* *Optional (+/-)*	Corrected Volume Entering Distribution System
10 to 15 Year Baseline - Water into Distribution System				
Year 1	1,995	13860.0699		13,860
Year 2	1,996	14712.397		14,712
Year 3	1,997	14621.8342		14,622
Year 4	1,998	13943.0433		13,943
Year 5	1,999	14198.5769		14,199
Year 6	2,000	13060.138		13,060
Year 7	2,001	12986.0152		12,986
Year 8	2,002	13838.7381		13,839
Year 9	2,003	11681.6356		11,682
Year 10	2,004	12371.4131		12,371
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	11681.6356		11,682
Year 2	2,004	12371.4131		12,371
Year 3	2,005	12287.7676		12,288
Year 4	2,006	12688.4259		12,688
Year 5	2,007	13356.0306		13,356
2015 Compliance Year - Water into Distribution System				
2015		9,031		9,031
** Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document*				

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

Baseline Year *Fm SB X7-7 Table 3*		**Surface Reservoir Augmentation**					**Groundwater Recharge**			**Total Deductible Volume of Indirect Recycled Water Entering the Distribution System**
		Volume Discharged from Reservoir for Distribution System Delivery	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/ Treatment Loss	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility*	Transmission/ Treatment Losses	Recycled Volume Entering Distribution System from Groundwater Recharge	
10-15 Year Baseline - Indirect Recycled Water Use										
Year 1	1995			-		-	44		44	44
Year 2	1996			-		-	1		1	1
Year 3	1997			-		-	134		134	134
Year 4	1998			-		-	140		140	140
Year 5	1999			-		-	239		239	239
Year 6	2000			-		-	613		613	613
Year 7	2001			-		-	540		540	540
Year 8	2002			-		-	437		437	437
Year 9	2003			-		-	625		625	625
Year 10	2004			-		-	493		493	493
Year 11	0			-		-			-	-
Year 12	0			-		-			-	-
Year 13	0			-		-			-	-
Year 14	0			-		-			-	-
Year 15	0			-		-			-	-
5 Year Baseline - Indirect Recycled Water Use										
Year 1	2003			-		-	625		625	625
Year 2	2004			-		-	493		493	493
Year 3	2005			-		-	491		491	491
Year 4	2006			-		-	481		481	481
Year 5	2007			-		-	626		626	626
2015 Compliance - Indirect Recycled Water Use										
2015				-		-	1,294		1,294	1,294

**Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.*

NOTES: All reported volumes are net of recovery and transmission/treatment losses.

SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)				
Baseline Year *Fm SB X7-7 Table 3*		Service Area Population *Fm SB X7-7 Table 3*	Annual Gross Water Use *Fm SB X7-7 Table 4*	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1995	89,608	14,158	141
Year 2	1996	89,685	14,715	146
Year 3	1997	89,815	14,935	148
Year 4	1998	90,020	14,148	140
Year 5	1999	90,429	14,678	145
Year 6	2000	89,637	14,653	146
Year 7	2001	90,795	14,363	141
Year 8	2002	91,174	14,842	145
Year 9	2003	91,375	14,053	137
Year 10	2004	92,164	14,159	137
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	
10-15 Year Average Baseline GPCD				**143**
5 Year Baseline GPCD				
Baseline Year *Fm SB X7-7 Table 3*		Service Area Population *Fm SB X7-7 Table 3*	Gross Water Use *Fm SB X7-7 Table 4*	Daily Per Capita Water Use
Year 1	2003	91,375	14,053	137
Year 2	2004	92,164	14,159	137
Year 3	2005	92,753	13,967	134
Year 4	2006	93,232	13,786	132
Year 5	2007	93,769	13,803	131
5 Year Average Baseline GPCD				**134**
2015 Compliance Year GPCD				
2015		95,774	9,471	**88**

SB X7-7 Table 6: Gallons per Capita per Day *Summary From Table SB X7-7 Table 5*	
10-15 Year Baseline GPCD	143
5 Year Baseline GPCD	134
2015 Compliance Year GPCD	88

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

SB X7-7 Table 7-E: Target Method 3				
Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
☐		North Coast	137	130
☐		North Lahontan	173	164
☐		Sacramento River	176	167
☐		San Francisco Bay	131	124
☐		San Joaquin River	174	165
☐		Central Coast	123	117
☐		Tulare Lake	188	179
☐		South Lahontan	170	162
☑	100%	South Coast	149	142
☐		Colorado River	211	200
Target *(If more than one region is selected, this value is calculated.)*				**142**

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**
134	128	142	**128**

[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 *Fm SB X7-7 Table 7-F*	10-15 year Baseline GPCD *Fm SB X7-7 Table 5*	**2015 Interim Target GPCD**
128	143	**135**

SB X7-7 Table 9: 2015 Compliance								
Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments *(in GPCD)* Enter "0" if Adjustment Not Used: Extraordinary Events	Weather Normalization	Economic Adjustment	TOTAL Adjustments	Adjusted 2015 GPCD	2015 GPCD *(Adjusted if applicable)*	**Did Supplier Achieve Targeted Reduction for 2015?**
88	135	-	-	-	-	88	88	**YES**