Guidance for Water Code Section 10631(e)(4)

SBx7-7 USC Meeting, August 13, 2015

by: Greg Young

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A quick review from our previous presenation…

Why is DWR developing this guidance?

- To help water purveyors comply with the voluntary opportunity provided by Water Code Section 10631(e)(4).
- To encourage water suppliers to move to a land-use basis instead of a population basis for projecting demand
  - UWMPs are updated every 5 years, so a supplier's assumptions regarding future demands can continually be refined to reflect dynamic factors

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Guidance document has been drafted and we are looking for comments from the USC

- Title: *Estimating Future Water Savings from Adopted Codes, Standards, Ordinances, or Transportation and Land Use Plans*
- Organization:
  - Section 1 – Introduction and background
  - Section 2 – Expanding the land-use basis for unit water demand estimates
  - Section 3 – Implementation Examples
  - Section 4 – Additional Useful Information (*to be drafted*)
  - Section 5 – Conclusions (*to be drafted*)

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Primary message for purveyors

- Subdivide as much as practical to reflect existing and future land and water use categories
- Analyze customer meter data to establish baseline factors
- Adjust factors for future conservation (for existing customers) to reflect codes, ordinances, etc.
- Establish new factors from baselines and from other influencing factors (appliance standards, MWELO, etc.)
- No one-size fits all rules to apply, as a variety of factors affect how a purveyor may want to portray customer categories

Category	Unit Count or Acreage						Demand Factor (af/du or af/ac)	Demand (af/yr)					
	Current	2020	2025	2030	2035	2040		Current	2020	2025	2030	2035	2040
Residential													
Type A (existing)							(indoor)						
							(outdoor)						
Type B (new)							(indoor)						
							(outdoor)						
Type C (existing							(indoor)						
							(outdoor)						
DU Total													
							Indoor Subtotal						
							Outdoor Subtotal						
Commercial													
Type A													
Type B													
Type C													
Type D													
							Subtotal						
Public													
Type A													
Type B													
							Subtotal						
Park													
Streetscape													
Open Space													
							Outdoor Subtotal						
							Indoor Total						
							Outdoor Total						
							Total						
							Outdoor Non-revenue water 10%						
							Indoor Non-revenue water 10%						
							Total Indoor						
							Total Outdoor						
							Total Proposed Project Demand						

Example expanding Demand Factors over time horizon

	Units (number of DU/acre)						Demand Factor (acre-feet/year per unit)					Water Demand (acre-feet/year)				
	Now	2020	2025	2030	2035		Now	2020	2025	2030	2035	Now	2020	2025	2030	2035
Residential Density = 6,000-8,000 sf lots																
Existing (A)	4,458	4,458	4,458	4,458	4,458	Indoor	0.25	0.22	0.20	0.20	0.20	2,898	2,541	2,363	2,229	2,229
						Outdoor	0.40	0.35	0.33	0.30	0.30					
Existing (B)	3,930	3,930	3,930	3,930	3,930	Indoor	0.20	0.20	0.18	0.18	0.18	1,886	1,769	1,690	1,690	1,690
						Outdoor	0.28	0.25	0.25	0.25	0.25					
Future	--	2,184	3,786	5,387	7,000	Indoor	--	0.16	0.16	0.16	0.16	--	830	1,439	2,047	2,660
						Outdoor	--	0.22	0.22	0.22	0.22					
	Total DUs =				####				Total Demand =			4,784	5,139	5,491	5,966	6,579
Commercial - Big box shopping center																
Existing	40	40	40	40	40	All	2.00	1.8	1.60	1.60	1.60	80	72	64	64	64
Future	--	10	25	25	25	All	--	1.20	1.20	1.20	1.20	--	12	30	30	30
	Total acres =				65					Total Demand =		80	84	94	94	94
										Grand Total Demand =		4,864	5,223	5,585	6,060	6,673

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Questions and Discussion

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