



# Water Service Regulations - Section 31 Water Efficiency Requirements Checklist

## TO BE COMPLETED BY APPLICANT

**I certify the subject project meets the specified water-efficiency requirements for plumbing and landscaping.**

Signature \_\_\_\_\_ Date \_\_\_\_\_

### CUSTOMER ACCOUNT INFORMATION

Applicant Name <i>(print)</i>	Contact	Phone #
Site Address		
Average Sq. Footage	# of Units	# of Fixtures
<input type="checkbox"/> Single Family <input type="checkbox"/> Multi-Family <input type="checkbox"/> Commercial <input type="checkbox"/> Institutional <input type="checkbox"/> Irrigation only <input type="checkbox"/> Industrial <input type="checkbox"/> Other:		

Indoor Water Use	Requirements <i>(the more restrictive of all state, federal and EBMUD Codes apply)</i>	No. Devices and Value	Unit Meas.	Pass/Fail	DISTRICT USE ONLY
<b>Attach Site Plan, Equipment List (see definitions on reverse side)</b>					<input type="checkbox"/> Check List (no plan required) <input type="checkbox"/> Check List w/ required plan check review AUDITOR: DATE REVIEWED: <input type="checkbox"/> Follow-Up Required (Explain): DATE RE-SUBMITTED: DATE APPROVED: Meter Sizing: Dedicated Irrigation Meter Required <input type="checkbox"/> Yes <input type="checkbox"/> No
Toilets	≤ 1.28 gal/flush; > 350 gram rated		Flow Rate		
Urinals	≤ 0.5 gal/flush		Flow Rate		
Showerheads	≤ 2.5 gpm; one per 2,500 in. <sup>2</sup>		Flow Rate		
Kitchen Faucets	≤ 2.2 gpm		Flow Rate		
Bath Faucets	≤ 0.5 gpm; ≤ 1.5 gpm		Flow Rate		
Clotheswashers	≤ 7.5 Water Factor or ≤ 7.5 gallons per cu. ft. capacity		Water Factor		
Pre-rinse spray valves	≤ 1.6 gpm		Flow Rate		
Cooling towers	≥ 5 Cycles of concentration		Cycles		
Food Steamers	Boiler-less; self-contained				
Ice machines	Air-cooled or ≤ 25 gallons/100 lbs.		Air-cooled Wtr-cooled		
Commercial Refrigeration	Air-cooled or water-cooled w/closed system; no single pass permitted.		Air-cooled Wtr-cooled		
Vehicle Wash Facilities	≥ 50 % recycled		% recycled		
<b>RECOMMENDED MEASURES</b>					
<b>Outdoor Water Use</b>					
<b>Requirements (the more restrictive of all state, federal and EBMUD Codes apply)</b>					
<b>No. Devices and Value</b>					
<b>Unit Measure</b>					
<b>Pass/Fail</b>					
<b>Attach Landscape Plan with the following (see definitions)</b>					
Total Landscape Area			sq. ft.		
Total Irrigated Area			sq. ft.		
Total Turf Area	< 25% of irrigated		sq. ft. & %		
Non-Turf Areas	80% native or low water use		sq. ft. & %		
Automatic Self Adjusting irrigation controller	For all commercial and 3 or more residential > 5000 ft <sup>2</sup> landscaping		Manufacturer		
Irrigation Efficiency	80% ETo - Reference evapotranspiration; no overspray, no runoff		% ETo		
Valves and Circuits	Group plants by type/Hydrozones		# of Zones		
Pool and Spas	Covers Required		#		
Sprayheads	Not allowed in ≤ 8 ft. wide area		See Regulations		
<b>COMMENTS:</b>					

GPD – Gallons Per Day    GPM – Gallons Per Minute    GPF – Gallons Per Flush

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## SECTION 31 CHECKLIST DEFINITIONS

*These definitions are intended to help applicants in completing the Section 31 Checklist and completing project plans. They do not replace the text included within the Section 31 Regulations themselves.*

### 1. Indoor Water Use

- a. **High-Efficiency Toilet** Dual-flush gravity type model rated at a maximum average flush volume of 1.28 gallons per flush (gpf). All toilets must be certified as passing a 350 gram or higher flush test as established by the Uniform North American Requirements or other District-accepted third party testing entity. Pressure-assisted or flushometer type toilets with a maximum 1.0 gpf. Does not include flush or conversion devices.
- b. **Urinals** Manual, sensor-operated flush or zero water consumption urinal.
- c. **Showerhead** Individually plumbed water emitting device.
- d. **Lavatory faucet** Faucet with an aerator or laminar flow control device.
- e. **Kitchen faucet** Faucet with an aerator or laminar flow control device (i.e. orifices).
- f. **Clothes washing machine** Front loading horizontal axis or top loading model with: (1) a water factor rating of 7.5; or (2) a maximum average water use of 7.5 gallons per cubic foot of laundry or less.
- g. **Cooling towers** Equipped with recirculating systems, conductivity controllers, as well as make up and blowdown meters, and operate at a minimum of five (5) cycles of concentration.
- h. **Food steamers** Boiler less or self-contained models where applicable.
- i. **Ice machines** Air-cooled or water-cooled with a recirculating cooling unit.
- j. **Commercial refrigeration** Air-cooled or water-cooled with a closed looped system.
- k. **Pre-Rinse Dishwashing Spray Valves** Hand dishwashing spray emitter.

### 2. Outdoor Water Use

- a. **Total Landscape Area** Area, in square feet, that is designed for planting and irrigation; may include areas available for future landscaping.
  - i. **Turf areas** Percent of total irrigated area to be planted with lawn or turf.
  - ii. **Non-turf areas** Percent of total irrigated area to be planted with plants and groundcover (no lawn or turf).
- b. **Irrigation**
  - i. **Irrigation Efficiency** Includes a landscape (water budget design) to apply water at 80% of evapo-transpiration or the amount of water required to maintain a healthy landscape accounting for the evaporation of water from the soil surface and the transpiration of water through the plant foliage.
  - ii. **Automatic, self-adjusting irrigation controllers** Controllers that automatically activate and deactivate the irrigation system based on changes in the weather and include a moisture sensor and/or rain sensor shutoff.
  - iii. **Non-turf landscaped areas** Must include a pressure regulated drip irrigation system, designed by a landscape architect or other competent person.
  - iv. **Sprinklers and spray heads** All overhead spray or other sprinkler emitters not including bubblers or drip irrigation equipment.
  - v. **Valves and circuits** Electronic and manually operated.
  - vi. **Dedicated Irrigation Meter** A separate water meter for the landscape irrigation portion of the parcel is required at  $\geq 5,000$  sq. ft..
- c. **Swimming Pools and Spas.**
  - i. **Covers** Any cover material to reduce the amount of evaporation off pools and spas.
- d. **Vehicle wash facilities** Manual or automated commercial car washing stations.