



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
Attach Site Plan, Equipment List (see definitions on reverse side)					<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 <div style="background-color: #cccccc; text-align: center; padding: 2px;">MATERIAL DISTRIBUTED</div> <input type="checkbox"/> Water Service Application <input type="checkbox"/> Section 31 Regulations <input type="checkbox"/> Plant List <input type="checkbox"/> Residential Washer List <input type="checkbox"/> Toilet List <input type="checkbox"/> Commercial Washer List <div style="background-color: #cccccc; text-align: center; padding: 2px;">RECOMMENDED MEASURES</div> <input type="checkbox"/> Drip Irrigation <input type="checkbox"/> Plant Palate <input type="checkbox"/> Self-adj. Controller <input type="checkbox"/> Mulching <input type="checkbox"/> Soil Admendment <input type="checkbox"/> Other: COMMENTS:
Toilets	≤ 1.28 gal/flush; > 350 gram rated		Flow Rate		
Urinals	≤ 0.5 gal/flush		Flow Rate		
Showerheads	≤ 2.0 gpm; one per 2,500 in. ²		Flow Rate		
Kitchen Faucets	≤ 2.2 gpm		Flow Rate		
Bath Faucets	≤ 0.5 gpm; ≤ 1.5 gpm		Flow Rate		
Clothes washers	≤ 4.5 Water Factor or ≤ 4.5 gallons per cu. ft. capacity		Water Factor		
Dishwashers	Standard ≤ 5.0 gallons Compact ≤ 3.5 gallons		Cycle		
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		
Outdoor Water Use	Requirements <i>(the more restrictive of all state, federal and EBMUD Codes apply)</i>	No. Devices and Value	Unit Measure	Pass/Fail	
Attach Landscape Plans. (see definitions on reverse side)					
Total Landscape Area			sq. ft.		
Total Irrigated Area			sq. ft.		
Total Turf Area	< 25% of irrigated		sq. ft. & %		
Non-Turf Areas	70% native or low water use		sq. ft. & %		
Automatic Self Adjusting irrigation controller	For all commercial and 3 or more residential > 5000 ft ² landscaping		Manufacturer		
			Model #		
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		

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. **Dishwasher** Standard size capacity is \geq eight place settings plus six serving pieces and a compact size capacity is \leq eight place settings plus six serving pieces.
- h. **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
- i. **Food steamers** Boiler less or self-contained models where applicable.
- j. **Ice machines** Air-cooled or water-cooled with a recirculating cooling unit.
- k. **Commercial refrigeration** Air-cooled or water-cooled with a closed looped system.
- l. **Pre-Rinse Dishwashing Spray Valves** Hand dishwashing spray emitter.

2. Outdoor Water Use

- a. **Landscape areas**
 - i. **Total landscape areas** Area, in square feet, to be planted now or potentially planted in the future. Exclude open space areas that shall never be developed, planted or irrigated (including temporary irrigation) in any way now or in the future.
 - ii. **Total irrigated areas** Portion of total landscape area, in square feet, to be irrigated now or in the future.
 - iii. **Turf areas** Irrigated area, in square feet and percentage of total irrigated area to be planted with lawn or turf including drought tolerant varieties similar to no-mow turf. Turf area includes the surface area of any pool, spa or water feature. Turf area shall not exceed 25% of total irrigated area.
 - iv. **Non-turf areas** Irrigated landscape area, in square feet, and percentage of total irrigated area not included in turf areas (paragraph iii above). Non-turf area shall be planted with native or climate-appropriate species that require minimal water. Up to 20% of non-turf area may have a medium or high water requirement if grouped and irrigated separately
- b. **Irrigation**
 - i. **Irrigation Efficiency** Includes a landscape (water budget design) to apply water at 70% of evapo-transpiration.
 - ii. **Automatic, self-adjusting irrigation controllers** Controllers that automatically activate and deactivate the irrigation system based on changes in the weather and include a rain sensor shutoff and/or moisture sensor.
 - iii. **Non-turf landscaped areas** Must include a pressure regulated irrigation system, designed by a landscape architect, irrigation designer 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.