

ARTICLE [XX]

TOWN OF PITTSBORO WATER EFFICIENCY POLICY

25 – xxx The Town of Pittsboro is committed to the efficient use of water, a precious and limited natural resource. The water efficiency program will include a mixture of educational, financial, and regulatory initiatives to encourage resourceful and economical water use in a manner consistent with the Town’s overall mission and values.

To this end, the Board of Commissioners establishes the following water efficiency program goals:

- (a) Assure that Town of Pittsboro potable water resources and supplies are adequate and put to reasonable and beneficial uses, and maximize the efficient use of the town’s water supply so as to minimize or delay unnecessary water supply expansion projects and associated capital, operations and maintenance costs;
- (b) Help maintain compliance with State wastewater discharge permit requirements by using water more efficiently and subsequently reducing wastewater discharges;
- (c) Reduce non-revenue water losses by reducing the water supply demand due to leakage and other unaccounted uses;
- (d) Reduce damage and maintenance costs to publicly-owned streets and sidewalks caused by landscape runoff and overspray;
- (e) Increase public safety on streets and sidewalks by reducing the potential for pooling and frozen water on such areas; and
- (f) Prevent pollution of streams, lakes, and other surface waters by reducing water runoff from landscaped areas.

The following water efficiency measures are recommended of residential and non-residential properties. Additional measures will be addressed in the Reclaimed Water Ordinance, the Irrigation and Water Waste Ordinance, and other future initiatives.

25-xxx New Construction – Residential Indoor Uses. All plumbing in new residential construction, replacements, renovations, and additions should meet the following WaterSense requirements established by the US Environmental Protection Agency. WaterSense labeled products (third-party independently certified) are generally 20 percent more water-efficient than similar products, and meet stringent high-performance criteria:

(a) Toilets – All toilets should be WaterSense labeled tank-type toilets.

(b) Flushing urinals – All flushing urinals, if installed, should be WaterSense labeled flushing urinals.

(c) Bathroom sink faucets – All bathroom sink faucets should be WaterSense labeled bathroom sink faucets or faucet accessories (e.g., aerators)

(d) Kitchen sink faucets – All kitchen sink faucets should comply with federal standards for a maximum flow rate of 2.2 gallons per minute (GPM) (8.3 liters per minute [LPM]).

(e) Showerheads – All showerheads should be WaterSense labeled showerheads. This includes fixed showerheads that direct water onto a user for bathing purposes and hand-held showers. In cases where more than one showerhead or hand-held shower is provided in combination with others in a single device intended to be connected to a single shower outlet, the entire device must meet the maximum flow requirement in all possible operating modes.

(f) Shower compartments – The total allowable flow rate of water from all showerheads flowing at any given time, including rain systems, waterfalls, body sprays, and jets, should be limited to 2.0 GPM per shower compartment, where the floor area of the shower compartment is less than or equal to 2,160 square inches (in²) (1.4 meters² [m²]). For each increment of 2,160 in² (1.4 m²) of floor area thereafter or part thereof, additional showerheads should not exceed a total flow rate of water equal to or less than 2.0 GPM per shower compartment; the additional showerheads should be operated by controls that are separate from the other showerheads in the compartment.

(g) Hot water on demand: In new construction, a hot water system should be installed to provide hot water on demand at the point of use in sinks and baths/showers. All hot water fixtures should be WaterSense labeled.

(h) Appliances – If the following types of appliances are financed, installed, or sold as upgrades through the homebuilder, they should meet these criteria:

Dishwashers – Dishwashers should be ENERGY STAR® qualified.

Clothes washers – Clothes washers should be ENERGY STAR qualified with a water factor (WF) of less than or equal to 6.0 gallons of water per cycle per cubic foot of capacity.

(i) The installation of a pressure-reducing valve (PRV) on the house side of the water meter, in an easily accessible location, is required for all new single-family residences served by the Town's utility system.

(j) Private drinking water treatment systems should be certified to meet applicable NSF/ANSI standards, which are:

- NSF/ANSI 42 Drinking Water Treatment Units – Aesthetic Effects
- NSF/ANSI 53 Drinking Water Treatment Units – Health Effects
- NSF/ANSI 55 Ultraviolet Microbiological Water Treatment Systems
- NSF/ANSI 58 Reverse Osmosis Drinking Water Treatment Systems
- NSF/ANSI 62 Drinking Water Distillation Systems

Such systems should yield at least 85 gallons of treated water for each 100 gallons of water processed.

(k) Operating Manual – The builder is strongly encouraged to develop and provide to the single-family homeowner a file of information for all water-using equipment or controls installed in the house and yard, including all relevant WaterSense materials on indoor and outdoor water use. This may be a chapter or folder in an existing manual. If clothes washers or dishwashers are not provided, general information about water-efficient appliances provided from the town should be included.

1. Irrigation system – If an irrigation system is installed, the builder should provide the single-family homebuyer with a record drawing (e.g., schematic) of the system, an itemized list of irrigation components, copies of the irrigation schedules, and information about reprogramming the schedule after establishment of the landscape. This information should be included in the operating manual.

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New Construction—Commercial, Industrial, Institutional, and Multi-Family Development. All plumbing in new construction, replacements, renovations, and additions should meet the following WaterSense requirements:

(a) Flushing urinals – All flushing urinals, if installed, should be WaterSense labeled flushing urinals.

(b) All new commercial car wash facilities, including automobile dealerships, should use water recycling systems which recycle a minimum of 75-percent of the water used.

(c) Kitchens in which dishwashers are installed should use Energy Star® rated dishwashers.

(d) Commercial Laundry Facilities: All laundry facilities intended for public use such as laundromats, hotel guest laundries, or multi-family housing laundry rooms should be equipped with Energy Star® qualified commercial clothes washers.

(e) Drinking water treatment systems, if installed, should meet NSF/ANSI requirements (such systems shall yield at least 85-gallons of treated water per 100-gallons processed).

(f) All new multi-family development should provide independent-unit metering (water meter for each dwelling unit).

(g) Water Features (A) Recirculating water systems should be used for water features. (B) Where available, recycled water shall be used as a source for decorative water features. (C) Pool and spa covers are highly recommended.

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