

WATER CONSERVATION PLAN
TOWNSHIP OF PENNSVILLE

Objective

The primary objective of the Township of Pennsville Water Conservation plan is to increase conservation awareness in the industrial and private sectors.

Public Awareness

Water Conservation flyers should be distributed to the public at the time the water bills are sent. Local civic organizations such as the Boy Scouts and Girl Scouts could be asked to help with the distribution of these flyers.

Periodic water conservation “tips” could be published in the Today’s Sunbeam and broadcast on the local radio station.

The Pennsville School Board could be asked to promote water conservation education and activities. Some activities would be a poster/slogan contest, field trips through the Water Department, etc.

The public should be educated in leak detection and the savings, which could be derived from the same. The Water Department could distribute dye tablets to check for leaks in toilets. Meter readers should inform residents with unusually large water meter readings to check for leaks.

The Water Department should meet individually with major water users to discuss and devise a conservation plan for their facility.

Water Recycling

Homeowners should be encouraged to recycle “grey water” for watering plants and shrubs. Grey water may also be used in heavy cleaning jobs.

In industry, recycled water could be treated and used for cooling purposes. This should be discussed individually with major water users and a plan devised for their specific site.

The filtering and reuse of water by all car washes should be encouraged.

Meter Replacement

It is the policy of the Pennsville Water Department that all connections to the water distribution system be metered. Department personnel read meters on a semi-annual basis. During the reading of the meters, the Department personnel check the operation of the meter and its condition and make recommendations as to whether meters must be repaired or replaced.

Service meters should be inspected in accordance with the following schedule:

<u>Type/Dia.</u>	<u>Max. Test Interval</u>	<u>Max. Allowable Regis. #</u>
> 1"	4 years	4% at larger than 20 gpm
1"	6 years	4% at 20 gpm
3/4"	8 years	4% at 10 gpm
5/8"	10 years	4% at 6 gpm

The Pennsville Water Department has and will complete upgrading and replacement program of its older undersized mains throughout Pennsville Township, thus reducing head losses and leakage potential.

Water Rates

Restructuring the water rates to encourage water conservation has been done. This was achieved by reducing the minimum consumption volume and billing rates along with increasing each consumption rate gradation thereafter.

**Pennsville Township
Water Department**

75% OF THE WATER WE USE EVERYDAY IS IN THE BATHROOM...

How to save water in the bathroom:

Don't use the toilet to flush cigarettes, facial tissues, etc. This wastes 5-7 gallons each flush.

Repair leaks - add a few drops of red food coloring to tank. If red appears in toilet bowl without flushing, there is a leak. A worn flush-valve ball or a corroded valve seat causes this. This can waste 10-12 gallons per hour.

Use plastic bottles filled with water and weighted with pebbles to displace water in tank. Be sure not to obstruct float. **DO NOT USE BRICKS!** They can flake and clog tubes and valves, and if dropped could crack tank. This saves ½ - 1 gallon depending on size of bottle used.

When brushing teeth or shaving, don't leave the water running. Clean brush and razor with occasional bursts of water. Rinse teeth using a cup. Running the tap can waste up to 4 gallons/minute.

Adding an aerator to the tap can save approximately 2 gallons/minute.

Stopper the tub before turning on the water. Adding hot water later can warm the initial cold water. Consider recycling bath water for heavy cleaning jobs.

WATER CONSERVATION

D.1 WATER CONSERVATION – GENERAL

Automatic flushing devices of the siphonic design shall not be used to operate urinals.

D.2 WATER CONSERVATION – WATER CLOSETS

Water closets, either flush tank or flushometer operated, shall be designed, manufactured, and installed to be operable and adequately flushed with an average of 3.5 gallons of water, but no more than 4 gallons per flushing cycle, when tested at any one test pressure.

D.3 WATER CONSERVATION – URINALS

Urinals shall be designed, manufactured and installed to be operable and adequately flushed with no more than 1.5 gallons of water per flush.

D.4 WATER CONSERVATION – LAVATORY FAUCETS

Lavatory faucets shall be designed, manufactured, and installed so that they shall not exceed a water flow rate of 2.75 gallons per minute* with varying supply line pressure. Every lavatory faucet will be equipped with an approved aerator. Self-closing or self-metering faucets shall be installed on all public lavatories.

D.5 WATER CONSERVATION – SHOWER HEADS

Shower heads shall be designed, manufactured, and installed to deliver water at a rate not exceeding 2.75 gallons per minute* with varying supply line pressure.

D.6 WATER CONSERVATION – SINK FAUCETS

Sink faucets shall be designed, manufactured, and installed so that they shall not exceed a water flow rate of 2.75 gallons per minute* with varying line pressure.

** For testing purposes, a manufacturing tolerance of +0.25 gallons per minute is allowable.*