

ARTICLE 2

**CONSERVATION, DEVELOPMENT AND UTILIZATION OF
DELAWARE RIVER BASIN WATER RESOURCES**

2.1.2 **New and Existing Users** (*Resolution Nos. 76-17 and 92-2*). It shall be the policy of the Commission to:

- A. Require maximum feasible efficiency in the use of water by new industrial, municipal and agricultural users throughout the basin.
- B. Require eventual application of those water-conserving practices or technologies that can feasibly be employed by existing water users.
- C. Owners of water supply systems serving the public (purveyors) seeking approval under Section 3.8 of the Compact for a new or an expanded water withdrawal shall include as part of the application, a water conservation plan. The plan shall describe the various programs adopted by the purveyor to achieve maximum feasible efficiency in the use of water.
 - 1. The water conservation plan shall, at a minimum, describe the implementation of the following programs as required by the Commission:
 - a. Source metering (*Resolution No. 86-12*);
 - b. Service metering (*Resolution No. 87-7 Revised*);
 - c. Leak Detection and Repair (*Resolution No. 87-6 Revised*); and
 - d. Water Conservation Performance Standards for Plumbing Fixtures and Fittings (*Resolution No. 88-2 Revision No. 2*).
 - e. ***An ongoing water auditing program in accordance with section 2.1.8.***

2.1.6 **Leak detection and repair** (*Resolution No. 87-6 Revised*).

- A. Owners of water supply systems serving the public (purveyors) in the Delaware River Basin that distribute water supplies in excess of an average of 100,000 gallons per day (gpd) during any 30-day period shall develop and undertake a systematic program to monitor and control leakage within their water supply system. Such a program shall at a minimum include: periodic surveys to monitor leakage, ***enumerate non-revenue water (or in instances where AWWA methodology as set forth in Section 2.1.8 below has not yet been adopted, enumerate unaccounted-for water)***, and determine the current status of system infrastructure; recommendations to monitor and control leakage; and a schedule for the implementation of such recommendations. Each purveyor's program shall be subject to review and approval by the designated agency in the state where the system is located.

“Non-revenue water” is defined by AWWA as the sum of unbilled authorized consumption, apparent losses and real losses. “Non-revenue water percent” is defined as non-revenue water divided by the amount of water entering the distribution system times 100 percent.

“Unaccounted-for water” is defined as the amount of water entering the distribution system minus the amount of water delivered through service meters. “Unaccounted-for water percent” is defined as unaccounted-for water divided by the amount of water entering the distribution system times 100 percent.

The designated state agencies are: Delaware Department of Natural Resources and Environmental Control; New Jersey Department of Environmental Protection; New York Department of Health, and Pennsylvania Department of Environmental Protection.

- B.** *Each purveyor shall strive to minimize system leakage to levels as guided by IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding AWWA guidance.*

*After a purveyor has submitted to the appropriate designated agency its initial program to monitor and control leakage, the purveyor shall prepare and submit a revised and updated program every three years thereafter or at such greater frequency as shall be required by the designated state agency. The designated state agency may require more frequent program submission from purveyors with unaccounted-for **or non-revenue** water that is in excess of 15 percent.*

- C.** Any project approvals hereafter granted pursuant to Section 3.8 of the DRBC Compact or any renewal of a project approval shall be subject to the provisions of this regulation.

2.1.8 Water Auditing (Resolution No. 2009-1).

- A.** *Policy Statement.* *It shall be the policy of the Commission to establish a standardized water audit methodology for owners of water supply systems serving the public to ensure accountability in the management of water resources.*
- B.** *Voluntary Water Audit.* *Through December 31, 2011, owners of water supply systems serving the public with sources or service areas located in the Delaware River Basin are encouraged to implement an annual calendar year water audit program conforming to the IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding AWWA guidance.*
- C.** *Mandatory Water Audit.* *Effective January 1, 2012, the owners of each water supply system serving the public with sources or service areas located in the Delaware River Basin shall implement an annual calendar year water audit program conforming to IWA/AWWA Water Audit Methodology (AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding AWWA guidance.*
- D.** *Mandatory Reporting.* *Effective January 1, 2013, “Non-revenue water” reported under section 2.50.3. (Reporting Requirements), subsection B.1.b.ii. of this Water Code shall be computed in accordance with IWA/AWWA Water Audit Methodology*

(AWWA Water Loss Control Committee (WLCC) Water Audit Software) and corresponding AWWA guidance.

2.50.3 **Reporting Requirements** (*Resolutions Nos. 2001-8 and 2009-1*).

A. Annual Reporting Requirements.

1. Water Supply Systems Serving the Public. The owner(s) of each water supply system serving the public and subject to requirements under subsection 2.50.1, subsection 2.50.2, and the Ground Water Protected Area Regulations for Southeastern Pennsylvania shall report the following data on an annual basis to the designated agency.

a. Source Data

i. Withdrawal Data. The following data shall be reported for each withdrawal source separately (i.e., each well or surface water intake).

- Year
- Facility Identification Code (State Code)
- State Permit Number
- Facility Name
- Monthly Withdrawal Amount (MG)

ii. Bulk Purchases from Other Suppliers. The following data shall be reported for each bulk purchase separately.

- Bulk Supplier Name
- Bulk Supplier's Source Name(s)
- Monthly Bulk Purchase Amount (MG)

b. Service Area Data. The following data shall be reported separately for each county served:

i. Service Area Name(s)

ii. Total Annual Water Use by Category (MG). All usage shall be reported according to the following categories:

- Residential metered (including apartment complexes)
- Commercial metered
- Institutional metered
- Industrial metered
- Bulk Sales
- Other metered (Specify)
- *Non-revenue water, including unbilled authorized consumption, apparent losses, and real losses computed in accordance with Section 2.1.8 D. of this Water Code*
- *Unaccounted for water (defined as the amount of water entering the distribution system minus the amount of water delivered through service meters) 2*
- Total

2. Other Withdrawals. Each person, firm, corporation, or other entity, except water supply systems serving the public subject to requirements under subsection 2.50.2 and the Ground Water Protected Area

Regulations for Southeastern Pennsylvania shall report the following data on an annual basis to the designated agency. The data shall be reported for each withdrawal source separately (i.e., each well or surface water intake). Changes to any other information required under Section A above, shall also be reported. All information required under Section A above shall be completed for new withdrawals for the first year of operation.

- a. Year
- b. Facility Identification Code (State Code)
- c. State Permit Number
- d. Facility Name
- e. Monthly Withdrawal Amount (MG)
- f. Evaporative Loss Amount (MG) (if known)
- g. Product Use Amount (MG) (if known)
- h. Estimated Monthly Wastewater Discharge Amount (MG)

B. To avoid duplication of effort and to insure proper enforcement of this regulation, the Executive Director is hereby authorized to enter into administrative agreements with the following designated agencies: Delaware Department of Natural Resources and Environmental Control, New Jersey Department of Environmental Protection, New York Department of Health, Pennsylvania Department of Environmental Protection, and other state agencies where appropriate, authorizing such agencies to administer and enforce the provisions of this regulation and to adopt such rules and regulations of procedure as may be necessary to insure proper administration and enforcement of this regulation. In the absence of an administrative agreement, the Commission shall serve as the designated agency. Designated agencies are encouraged to implement and maintain automated data collection and reporting systems to facilitate the efficient transfer of data to the Delaware River Basin Commission. The administrative agreements shall specify the format for data submission.