

Appendix K: Water Use Efficiency Requirements for Non-municipal Water Suppliers

Small Water System Management Program (SWSMP)

Water System Plan (WSP)

Small Water System Management Program (SWSMP)

These are the Water Use Efficiency Requirements for Non-municipal Systems if you are completing a Small Water System Management Program (SWSMP)

A complete water use efficiency (WUE) program includes both supply side (water system) and demand side (customer) strategies for efficient water use. A utility should demonstrate its efficient use of the resource and help their customers to use water efficiently. This guidance has been developed to assist non-municipal water systems in meeting the planning requirements and recommendations regarding water use efficiency.

WAC 246-290-105

(1) The purpose of a SWSMP is to:

- a) Demonstrate the system's operational, technical, managerial, and financial capability to achieve and maintain compliance with all relevant local, state, and federal plans and regulations.
- b) Establish eligibility for funding under chapter 246-296 WAC.

(2) All non-community and all community systems not required to complete a WSP as described under WAC 246-290-100(2) shall develop and implement a small water system management program.

Water Use Efficiency-Related Requirements

1. Per WAC 246-290-496(1)(a), Install production (source) meters.
2. Provide water production data monthly and annually for each source and provide water consumption data for residential and non-residential annual totals, WAC 246-290-105(4)(h)(i and ii).
3. Forecast demand considering water use trends based on actual water use records, WAC 246-290-105(4)(k)(i).
4. Evaluate a rate structure that would encourage water use efficiency, WAC 246-290-105(4)(l).
5. Create a water use efficiency program, WAC 246-290-105(4)(g).

Water Use Efficiency Program

WAC 246-290-010 defines a WUE program as policies and activities focusing on increasing water supply efficiency and water demand efficiency to minimize water withdrawals and water use.

The WUE program recommendations summarized below replace the Water Conservation Program (Element 14) previously required in the Small Water System Management Program.

We recommend that an effective WUE program should include:

- Set water saving goals for supply side (water system) and demand side (customer) to promote water use efficiency.
- Identify water saving measures to meet goals.
- Evaluate, report, and manage water loss.
- Educate your customers about WUE.
- Install consumption meters to determine annual residential and non-residential usage.
- Evaluate WUE program effectiveness every 6 years.
- Report WUE program success annually to your customers. Consider using an annual newsletter or your annual consumer confidence report.

Water System Plan (WSP)

These are the Water Use Efficiency Requirements for Non-municipal Systems if you are completing a Water System Plan (WSP)

A complete water use efficiency (WUE) program includes both supply side (water system) and demand side (customer) strategies for efficient water use. A utility should demonstrate its efficient use of the resource and help their customers to use water efficiently. This guidance has been developed to assist non-municipal water systems in meeting the planning requirements and recommendations regarding water use efficiency.

WAC 246-290-100 WAC

(1) The purpose of a Water System Plan is to:

- a) Demonstrate the system's operational, technical, managerial, and financial capability to achieve and maintain compliance with relevant local, state, and federal plans and regulations.
- b) Demonstrate how the system will address present and future needs in a manner consistent with other relevant plans and local, state, and federal laws, including applicable land use plans.
- c) Establish eligibility for funding under chapter 246-296 WAC.

Water Use Efficiency-Related Requirements

1. Per WAC 246-290-496(1)(a), install production (source) meters.
2. Provide water production data monthly and annually for each source and provide water consumption data for each customer class (annual totals) per WAC 246-290-100(4)(b)(ii)(A and B). If over 1,000 connections, include seasonal variations, WAC 246-290-100(4)(d).
3. Provide a demand forecast for a consecutive 6-year and 20 year period with and without efficiency savings, WAC 246-290-100(4)(c).
4. For systems serving 1000 or more connections, evaluate reclaimed water opportunities, WAC 246-20-100(4)(f)(vii).
5. Evaluate the affordability and feasibility of a water rate structure that will encourage water demand efficiency, WAC 246-290-100(4)(j)(iv).
6. Create a water use efficiency program, WAC 246-290-100(4)(f)(i), taking into consideration the water supply characteristics and affect from current and future use on water supply (see WAC 246-290-100 (4)(f)(ii)(B) and Appendix C).

Water Use Efficiency Program

WAC 246-290-010 defines a WUE program as policies and activities focusing on increasing water supply efficiency and water demand efficiency to minimize water withdrawals and water use.

The WUE program recommendations summarized below replaces the 1994 Conservation Planning Requirements/Guidelines used in Water System Plans.

We recommend that an effective WUE program should include:

- Set water saving goals for supply side (water system) and demand side (customer) to promote water use efficiency.
- Identify water saving measures to meet goals.
- Evaluate, report and manage water loss.
- Educate your customers about WUE.
- Install consumption meters to determine annual usage and customer class data.
- Evaluate WUE program effectiveness every 6 years.
- Report WUE program success annually to your customers. Consider using an annual newsletter or your annual consumer confidence report.