Municipal Water Supply Management Plan Template

A Municipal Water Supply Management Plan must at a minimum include an evaluation of the following information to meet planned future growth and development.

Population and Demand Analysis -Residential, Commercial and Industrial

* Existing population and 10-year projected population
* Existing and 10-year projected demands based on zoning and existing water use trends that are specific to the municipality including residential, commercial and industrial customers.

Existing

* Analysis of existing demand
  + # of Residential customers and quantity of water served
  + # of Commercial customers and quantity of water served
  + # of Industrial customers and quantity of water served
  + Sales to other municipalities/water utilities
* Average and Peak Daily, Monthly and Yearly demands
* Total per capita demand

Future

* Analysis of 10-year projected demands based on municipal specific demographics
  + # of residential customers and quantity of water to be served
  + # of Commercial customers and quantity of water to be served
  + # of Industrial customers and quantity of water to be served
* Average and Peak Daily, Monthly and Yearly demands
* Total per capita demand

Water Supply Inventory *(if water service is provided by more than one utility, provide separate information for each)*

Existing Water Service Area

* Identify water service area, franchise area, and service area pressure zones including map(s)
* Description of the Existing Service Area – number of connections, population served, etc.

Source Water Supply Availability for the Water Service Area

* Existing Water Allocation Permit limitations for all sources
* Existing contracts for Purchased water
  + Contracts limitations, terms and conditions
* Existing contracts for the Sale of water
  + Contracts limitations, terms and conditions
* Firm and Total Capacity (as defined by N.J.A.C. 7:10)
* Monthly and Annual Surplus/Deficit (as defined by N.J.A.C. 7:10)
* Water Loss Audit Data

Water Supply Inventory for the Water Service Area

* General Inventory Report (i.e. sources, treatment plants, storage facilities, etc.)
* Treatment capacity/limitations
* Storage capacity/limitations
* Permanent interconnections capacity/limitations
* Emergency interconnections

Assessment for future growth

If the current water supply is not sufficient to meet the 10 year projected demands, an assessment must be conducted to determine how these demands will be met.

10-year Water Source Planning

* Identify potential future water supply sources, such as:
  + Contracts for purchased water
  + New sources/increases in water allocation limits
    - Potential resource limitations (e.g. Critical Area aquifers, Highlands, Pinelands)
  + Utilization of Aquifer Storage & Recovery wells
  + Reclaimed water for beneficial reuse
  + Quantifiable water conservation measures

10-year Capital Improvement Plan

Outline plans to develop necessary capital improvements for an adequate water supply for the projected 10-year growth including a schedule for any required design, construction, and permitting. Improvements include, but are not limited to, optimization of existing sources, new sources of supply, treatment, additional interconnections for resiliency, new or modified contractual commitments for the purchase of additional water, and storage. The plan may also include the adoption of water conservation ordinances by the municipality or the reduction of water losses by the water utility (AWWA Water Audit, leak detection programs, etc.).