

# Master Plan Manager

## A Planning Tool for Wastewater, Water, and Water Resources

### Purpose

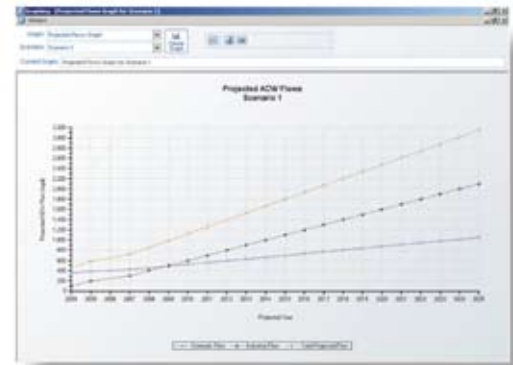
The Master Plan Manager software is a dynamic, analytical software tool for wastewater master planning that incorporates historical and projected flows and loads for domestic, industrial, and nontraditional pollutants; water conservation measures; treatment processes and capacities; pollutant reduction; regulatory requirements; planned projects and costs; and O&M costs. These data are used to develop flow and load projections, perform capacity evaluations, determine effluent quality, develop project schedules, and develop overall costs, rates, and fees. Master Plan Manager is managed from a Scenario Summary to produce numerous "what-if" scenarios in real time.

Master Plan Manager guides wastewater treatment plant planners and managers through the development of master plan scenarios and provides critical information for making informed decisions in managing water, wastewater, and water resources.

The Master Plan Manager allows users to distill the master planning process into a "living" model that can be updated throughout the master planning life cycle.

### Features

- ▼ Reduces the four- to six-week per scenario development process to just minutes.
- ▼ Provides a nexus between user costs and benefits for planning analysis.
- ▼ Integrates with the Water/Wastewater Asset Manager and the Financial Planning Tool.
- ▼ Contains graphical user interfaces (GUI) that are easy to use and understand.
- ▼ Incorporates demographic, financial, engineering, and regulatory models into one comprehensive solution.
- ▼ Provides a step-by-step process for developing master plan scenarios.
- ▼ Provides options for domestic and industrial growth rates, water conservation, nontraditional pollutants, future regulatory requirements, pollution reduction, and planned projects and costs.



### MASTER PLAN MANAGER

- ▼ Produces capacity bottlenecks, project schedules, and effluent quality projections.
- ▼ Integrates future rates and fees, expansion versus replacement, capital costs, revenues, and projected O&M costs.
- ▼ Allows users to consider various "treatment train" configurations for improving existing facilities and for adding advanced treatment.
- ▼ Allows user to create customized reports and graphs.



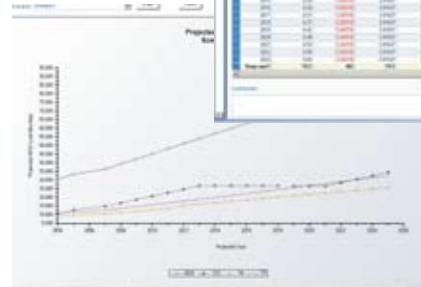
Rates and Fees



Project Schedule



Effluent Quality



Projected ADW Load

"Dedicated to creative, responsive, quality solutions for those we serve."

## Application

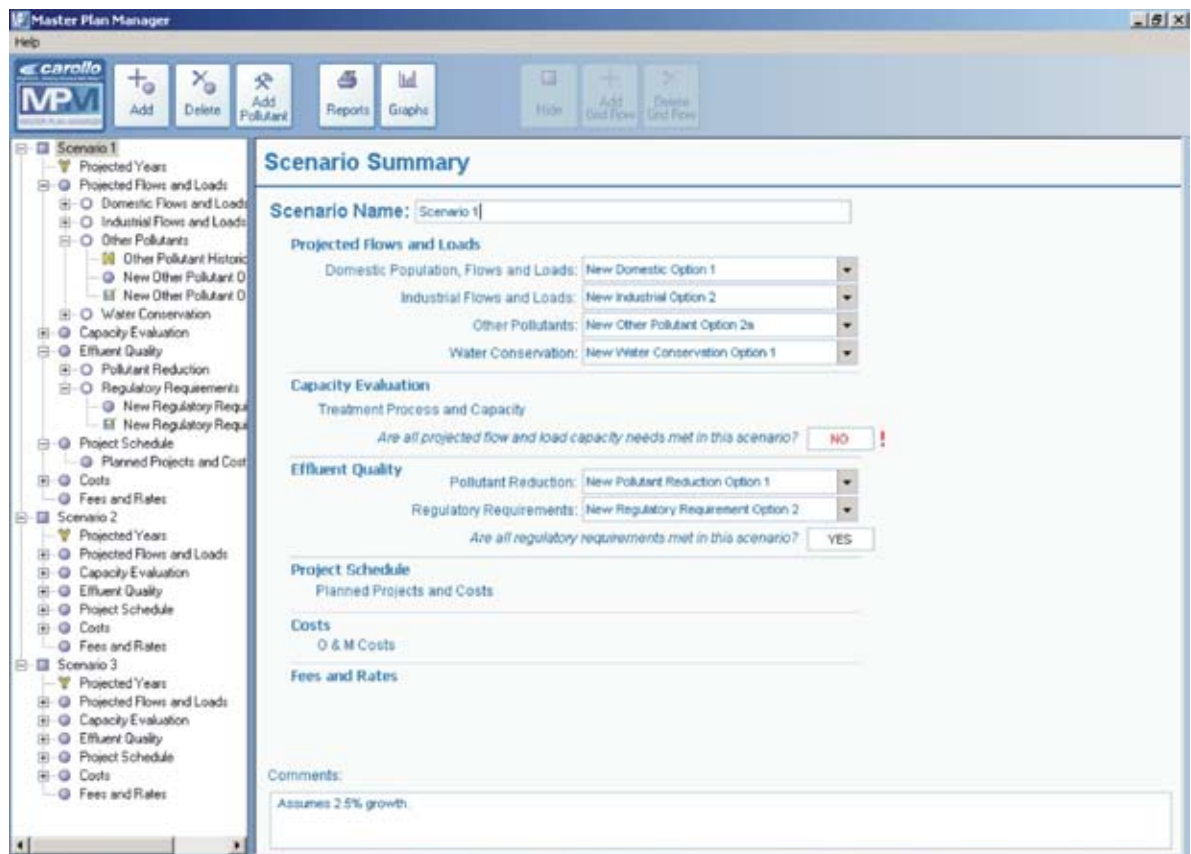
The user selects a set of master planning options from the Scenario Summary. Master Plan Manager incorporates these selections into a master plan scenario and within minutes displays capital project costs and schedule – including financial, regulatory, and other critical planning information.

The Scenario Summary serves as the central planning area. From the Scenario Summary, the user can select various scenario options. The considerations include:

- ▼ Water conservation.
- ▼ Population and industrial growth rates.
- ▼ Nontraditional pollutants.
- ▼ Treatment process selections.
- ▼ Regulatory requirements.
- ▼ Pollutant reduction.
- ▼ Capital Improvement Plan (CIP) projects and costs.

The Master Plan Manager is a modular program. The individual modules can be deployed separately or as an integrated program.

The architecture of the Master Plan Manager also allows for the integration of the Financial Planning Tool and the Water/Wastewater Asset Manager, separate programs developed by Carollo Engineers. For more information on the Water/Wastewater Asset Manager and the Financial Planning Tool, please see the Water/Wastewater Asset Manager and the Financial Planning Tool informational flyers or contact Carollo Engineers.



The screenshot displays the Master Plan Manager software interface. The main window is titled "Scenario Summary" and shows a tree view on the left with categories like "Projected Years", "Projected Flows and Loads", "Capacity Evaluation", "Effluent Quality", "Project Schedule", "Costs", and "Fees and Rates". The right pane contains the following sections:

- Scenario Name:** Scenario 1
- Projected Flows and Loads:**
  - Domestic Population, Flows and Loads: New Domestic Option 1
  - Industrial Flows and Loads: New Industrial Option 2
  - Other Pollutants: New Other Pollutant Option 2a
  - Water Conservation: New Water Conservation Option 1
- Capacity Evaluation:**
  - Treatment Process and Capacity: Are all projected flow and load capacity needs met in this scenario? **NO** !
- Effluent Quality:**
  - Pollutant Reduction: New Pollutant Reduction Option 1
  - Regulatory Requirements: New Regulatory Requirement Option 2
  - Are all regulatory requirements met in this scenario? **YES**
- Project Schedule:** Planned Projects and Costs
- Costs:** O & M Costs
- Fees and Rates:**
- Comments:** Assumes 2.5% growth.

Scenario Summary