

TTFIWMP User Guide

Below is a brief orientation to the type of content found in each section of this report. These “snapshots” are repeated on the first page of each section as well.

Section 1: Background

Details the reasons for developing the Tookany/Tacony-Frankford Integrated Watershed Management Plan, or TTFIWMP, and the purposes the plan is intended to serve. Provides an orientation to various facets of the TTF Watershed itself (geographical, ecological, historical, cultural, etc.), and describes the TTF Partnership, which was involved throughout the plan’s development and will be instrumental to its implementation. Finally, the overall watershed planning and regulatory framework is outlined in Sections 1.4 - 1.7.

Section 2: Integrated Watershed Management for the TTF Watershed

Describes the watershed planning approach behind the TTFIWMP. Outlines the types of existing and new data that were assembled and analyzed, as well as the process for modeling stormwater flow under various scenarios. Introduces several key concepts of the TTFIWMP: the overall goals and objectives (detailed in Section 3), the 21 watershed “indicators” (Section 4); and the screening of numerous methods, or “management options,” for meeting the goals (Section 7). In addition, introduces the approach of setting multiple strategies - Targets A, B, and C - for promoting successful implementation of the TTFIWMP.

Section 3: Goals and Objectives

Describes the process for setting overall watershed goals for the TTFIWMP, as well as numerous objectives for helping to reach those goals. The seven prioritized goals, referenced throughout this document, are useful for evaluating the wide range of possible management options for implementing the plan.

Section 4: Watershed Indicators: TTF Study Results

Details the 21 measurable “watershed indicators” that were created in order to assess historic and current conditions, and to track progress as the TTFIWMP is implemented over time. The information presented can serve as a basis for understanding the state of the TTF Watershed, its relative environmental quality, and trends in the management of factors that influence its quality.

Section 5: Problem Definition and Analysis

The watershed indicators described in Section 4 are used both to characterize the current state of the TTF Watershed, and to set a baseline for future comparison. Section 5 identifies the wide range of potential problems that have been identified in the watershed, and describes the analysis tools used to define them.

Section 6: Causes of Impairment

Discusses the causes of the various watershed problems identified through field study, stakeholders input, modeling, and data analysis. This section forms the link between the problem analysis presented in Section 5, and the identification of alternative solutions, or management options, presented in Section 7.

Section 7: Development and Screening of Management Options

Summarizes a comprehensive list of stormwater and watershed corrective measures, or “management options,” that the TTF Watershed Partnership judged to be potentially applicable to their watershed. This list serves as the starting point for the screening and evaluation steps (Section 7.2) that lead to the array of recommendations contained in the Implementation Guidelines (Section 8).

Section 8: Implementation Guidelines

Presents guidelines for watershed-wide implementation of the management options identified by the Tookany/Tacony-Frankford Watershed Partnership as best meeting the goals and objectives of the TTF Integrated Watershed Management Plan. Following extensive screening and evaluation (described in Section 7), only those options that are likely to be cost-effective and feasible under the specific conditions found in the TTF Watershed are carried over and included in these guidelines. The section begins with tips on how to navigate the information presented.

Section 9: Cost and Institutional Analysis

Presents cost estimates for the various recommended management options, and for the full set of Implementation Guidelines (from Section 8). Those cost estimates are then broken down by county and by municipality within the TTF Watershed. Finally, the section outlines the primary roles and responsibilities for the various levels of stakeholders in the implementation of the TTFIWMP.