
1. INTRODUCTION

This report provides the City of Cold Spring with a Comprehensive Surface Water Management Plan (CSWMP) that will serve as a guide to managing the surface water system throughout the City. The report builds upon existing limited water resources information for the area and includes a new floodplain analysis for Brewery Creek.



Brewery Creek

Cold Spring is an established community with a population of about 3,300 located southwest of St. Cloud (see Figure 1). The City is beginning to experience rapid growth with ongoing annexations and increasing development pressure. The focus for this report will be on protecting existing water resource features (e.g., lakes, ponds, wetlands, rivers, creeks, etc) while providing a roadmap for the development of stormwater infrastructure that accommodates the increased runoff that development brings.

The City's existing storm sewer system is largely confined to older, fully developed areas and has only recently been expanded into newly developing areas. The City's key needs are:

- Orderly expansion of the trunk storm sewer system to accommodate and manage the increased runoff from development
- Protection of existing high priority water resources
- Establishment of a capital improvement plan that equitably assigns costs for future improvements.

The City has never prepared a comprehensive surface water management plan. Previous planning was undertaken on a limited project-by-project basis that did not consider storm sewer needs from a long-term build out point of view. This plan provides the roadmap to guide the implementation of future improvements and should serve the City well into the 21st century.

A couple of key areas this plan will address include protection and enhancement of Brewery Creek and the establishment of baseline information for the development of a regulatory floodplain on the Creek. In addition, the plan will look at the existing flooding problem along the downstream reach of Brewery Creek, just upstream of its confluence with the Sauk River.



Figure 1 Location Map goes here

8 ½ x 11 color



1.1 PURPOSE AND SCOPE

In order to address changes and challenges that lay ahead as well as the current surface water needs of the City, Cold Spring retained Bonestroo Williamson Kotsmith to prepare a Comprehensive Surface Water Management Plan (CSWMP). The key tasks that were to be completed are:

1. Prepare a HydroCAD computer model of the Study Area. (Shown on Figure 2)
2. Analyze the Brewery Creek floodplain using HEC-RAS to establish a revised floodplain.
3. Provide policy and technical guidance to address stormwater management issues for new development/redevelopment activities.
4. Provide recommendations on operating, managing and maintaining the City's surface water system.
5. Provide a Capital Improvement Plan to establish trunk storm sewer assessment rates and policies.

1.2 ORGANIZATION

This report is a culmination of the activities described above and is organized as follows:

- Section 2 describes the physical environment including watersheds and drainage patterns, dominant land uses, and significant waterbodies within the City.
- Section 3 lists public agency requirements affecting surface water management in the City, along with the City's goals and policies.
- Section 4 presents an overview of all the major watersheds in the City.



- Section 5 covers regulatory responsibilities, development and redevelopment guidelines, NPDES stormwater permitting, educational programs, operation and maintenance of the surface water system, a capital improvement program, and financing.
- Section 6 contains a summary and recommendations.

