West Kill Stream Management Plan



December 2005

West Kill Stream Management Plan

December 2005

Developed By

Greene County Soil & Water Conservation District

907 County Office Building, Cairo NY 12514 Phone (518) 622-3620 Fax (518) 622-0344 www.gcswcd.com/stream/westkill



Project Team

Joel DuBois, Stream Program Leader Abbe Martin, West Kill Project Coordinator Amy DeGaetano, Conservation Planner Matt Maraglio, Stream Program Technician Rene' VanSchaack, Executive Director

NYCDEP Stream Management Program

71 Smith Ave, Kingston NY 124021 Phone (845) 340-7519 Fax (845) 340-7514



Project Team

Mark Vian, Project Manager
Sarah Miller
Dan Davis
Amanda LaValle
Philip Eskeli
Elizabeth Reichheld, Stream Program Manager

ii Forward and Acknowledgements

We are pleased to release the draft West Kill Stream Management Plan. Sections 1, 2 and 3 provides West Kill background information, watershed resources and institutional information. Sections 4, 5, and 6 provide individual Management Unit Descriptions and General Recommendations, specifically tailored to the ongoing stewardship of West Kill sub-basin, as well as a description of the demonstration restoration project at Shoemaker Road. This plan is not complete; to stay alive it needs to grow and change through the comments, input, concerns, suggestions and needs of the watershed community. Section 7, Plan Implementation, provides suggestions on how to ensure the Plan continues to evolve.

First and foremost, the West Kill Project team acknowledges the patience of the many streamside landowners who permitted the project's field assessment teams access to the stream in their backyards. We developed many new friends along the way, and we hope our intrusion on their privacy is justified in the end, through a better understanding of stream conditions and trends, a clearer vision of the particular stewardship needs along the stream corridor and, finally, a healthier West Kill.

This plan represents the efforts of many people, some working as part of their day-to-day jobs, some as volunteers, over the past three years. We especially appreciate the efforts of Joel Dubois and Abbe Martin, both with Greene County Soil and Water Conservation District, who have overseen the field effort and the project coordination, and drafted many sections of this management plan. Special thanks go to Amy DeGaetano, Matt Maraglio, Brandy White, Sara Powell, and Rich Andreassen at GCSWCD, and to Beth Reichheld, Sarah Miller, Amanda LaValle, Phil Eskeli, Jenn Grieser, David Burns and Francis Huber at the NYCDEP. The historical information given in the Management Unit Descriptions in Section 4 owes much to the generosity of the West Kill valley residents. We wish to thank the West Kill Project Advisory Committee, including the officials from the Town of Lexington, to whom the baton now passes for directing the future of this plan. We particularly thank the unwaivering support of Jerry Fraine, of NYSDEC Region 4. Jerry provided gracious access to their stream disturbance permit records and information on fishing access sites, and helped prepare sections of the plan.

We recognize the entire staffs of the Greene County SWCD and the DEP Stream Management Program, who were called on to support their colleagues in so many ways. This project was made possible through funding from the NYC DEP Stream Management Program, the US Army Corps of Engineers under the Watershed Environmental Assistance Program, and NYS Department of Environmental Conservation.

Rene' VanSchaack Executive Director Greene County Soil and Water Conservation District Cairo, New York Mark A. Vian West Kill Project Manager Stream Management Program, NYCDEP Kingston, New York

West Kill Management Plan Table of Contents

- i. Table of Contents
- ii. Forward and Acknowledgments

1. Introduction & Goals

- 1.1 Introduction: Why a Stream Management Plan?
- 1.2 Purpose: Why a Stream Management Plan for the West Kill?
- 1.3 Goals and Objectives
- 1.4 Guide to the Organization of this Plan

2. West Kill Natural and Institutional Resources

- 2.1 Regional Setting
- 2.2 Physiography
- 2.3 Hydrology and Flood History
- 2.4 Geology
- 2.5 Wetlands & Floodplains
- 2.6 Riparian Vegetation
- 2.7 Landuse/Landcover
- 2.8 Stakeholders
- 2.9 Recreational Opportunities and the Forest Preserve
- 2.10 Agency Contacts and Program Resources
- 2.11 Stream-related Activities and Permit Requirements

3. Watershed Inventory & Assessment

- 3.1 Water Quality Assessment
- 3.2 Introduction to Stream Processes
- 3.3 Watershed Inventory & Assessment

4. Management Unit Summary & Recommendations

- 4.1 Management Unit #1
- 4.2 Management Unit #2
- 4.3 Management Unit #3
- 4.4 Management Unit #4
- 4.5 Management Unit #5
- 4.6 Management Unit #6
- 4.7 Management Unit #7
- 4.8 Management Unit #8
- 4.9 Management Unit #9
- 4.10 Management Unit #10
- 4.11 Management Unit #11
- 4.12 Management Unit #12
- 4.13 Management Unit #13

- 4.14 Management Unit #14
- 4.15 Management Unit #15
- 4.16 Management Unit #16
- 4.17 Management Unit #17
- 4.18 Management Unit #18
- 4.19 Management Unit #19
- 4.20 Management Unit #20
- 4.21 Management Unit #21

5. Shoemaker Demonstration Restoration Project

6. General Recommendations

- 6.1 Flood Protection
- 6.2 Public Recreation
- 6.3 Water Quality
- 6.4 Education & Outreach
- 6.5 Programmatic Resources
- 6.6 Fisheries Habitat
- 6.7 Riparian Zone Management
- 6.8 General Stream Management Activities

7. Plan Implementation