
North Beach Flood Hazard Management Plan

Prepared for

**Grays Harbor County
Board of Commissioners**

Funded in Part by a Washington State
Department of Ecology FCAAP Grant



CH2MHILL

June 199

North Beach Flood Hazard Management Plan

Prepared for

**Grays Harbor County
Board of Commissioners**

Funded in Part by a Washington State
Department of Ecology FCAAP Grant

DRAFT



CH2MHILL

JULY 1999

CONTENTS

1.	Executive Summary Introduction Problems, Issues, and Goals Major Findings Summary of Proposed Solutions List of Recommended Actions	1-1
2.	Recommended Flood Hazard Reduction Plan Policy and Program Recommendations Structural Improvements Costs Funding Schedules and Length of Time of Benefits Conformance with Goals	2-1
3.	Background Legal Authority and Scope Project Background Planning Process Description and Characteristics of Planning Area Regulatory Overview	3-1
4.	Engineering Methods Overview of Engineering Methods Conner Creek Local Drainage Problems	4-1
5.	Alternative Flood Hazard Reduction Measures Structural Improvements Non-Structural Alternatives Environmental Impacts Costs Funding Schedules and Length of Time of Benefits Conformance with Goals	5-1

Appendices

- Appendix A. Conner Creek Hydrologic and Hydraulic Analysis
- Appendix B. Hydrologic Analysis of Local Flood Problems
- Appendix C. Surveyed Drainage System Maps
- Appendix D. Principles of Comprehensive Flood Hazard Management and Flood Control Assistance Account Programs
- Appendix E. Description of Relevant Regulatory and Capital Improvement Programs

Tables

- Table 1-1. North Coast Flood Hazard Management Plan Recommendations
- Table 2-1. North Coast Flood Hazard Management Plan Recommendations
- Table 2-2. Project Highlights for Figure 2-1
- Table 3-1. Regulations Pertaining to Flood Hazard Management
- Table 5-1. Stage-Storage Table for the Low Spot near Johnson's Mercantile
- Table 5-2. Alternative for Funding Flood Hazard Management Plan Implementation Measures

Figures

- Figure 1-1. Study Area
- Figure 2-1. Local Drainage Study Sites
- Figure 3-1. Study Area
- Figure 3-2. Grayland Monthly Precipitation Normals
- Figure 3-3. Flood Prone Areas from FEMA Flood Insurance Map
- Figure 3-4. Water Surface Profiles for the Lower Portion of Conner Creek
- Figure 3-5. Wetland Areas
- Figure 4-1. Local Drainage Study Sites
- Figure 5-1. Local Drainage at Silver Maple
- Figure 5-2. Drainage Along Heath Road
- Figure 5-3. Local Drainage at Johnson's Mercantile
- Figure 5-4. Highway 109 Ditch and Pipe Profile in the Northern Part of the Study Area