Crooked Lake

Comprehensive Lake Management Plan

Section 1.0 Executive Summary (to be completed)	
2.0 Introduction	1
2.1 Scope and Purpose of the Plan	
2.2 Identification & Location	
2.3 History of Use & Management	
2.4 Population and Economic Characteristics	
3.0 Watershed and Hydrologic Characteristics of Crooked Lake	12
3.1 Geologic Setting and Hydrogeology	
3.2 Topography	
3.3 Subwatersheds and Watershed Ratios	
3.4 Bedrock Geology	
3.5 Ground Water levels	
3.6 Land Use	
3.7 Hydrologic Characteristics of Crooked Lake	
3.8 Lake Levels	
4.0 Lake Characteristics	27
4.1 The Origin and nature of Crooked Lake	
4.1 Morphology and Bathymetry	
4.2 Shoreline Inventory	
4.3 Water	
4.4 Mixing and Temperature	
4.5 Dissolved Oxygen	
4.6 pH	
4.7 Transparency	
4.8 Total Phosphorus	
4.9 Current Phosphorus Components	
4.10 Water Quality Response Modeling	
4.11 Current Phosphorus Budget	
4.12 Chlorophyll-a	
4.13 Aquatic Macrophytes	
4.14 Fish Community Structure and Health	
5.0 Public Participation and Perceptions	46
5.1 Introduction	
5.2 The Lake as a Special Element in the Community	
5.3 Desired Improvements to the Lake	
5.4 Perceived lake Management Priorities	

Section 6.0 Organizations, Roles and Goals	Page 52
6.1 Crooked Lake Area Association	52
6.2 City of Andover	
6.3 City of Coon Rapids	
6.4 Anoka Conservation District	
6.5 Coon Creek Watershed District	
6.6 Department of Natural Resources	
6.7 Pollution Control Agency	
7.0 Rules, Regulations and Standards Affecting Lake Management	65
7.1 In-Lake Requirements, Regulations & Standards	
7.2 Watershed Requirements, Regulations & Standards	
8.0 Management Activities	73
8.1 Invasive Species (Eurasian Watermilfoil & Curly-Leaf Pondweed)	
8.2 Water Clarity	
8.3 Muck	
8.4 Nonpoint Source Pollution (Stormwater Management)	
8.5 Trash	
8.6 Water Levels	
9.0 Implementation Plans	98
9.01 Annual Chemical Treatment	,
9.02 Annual Plant Survey	
9.03 Application for Treatment of 20% of Littoral Zone	
9.04 Boat Inspection	
9.05 Buffer Strips	
9.06 Curb Cut Rain Gardens	
9.07 Dam Inspection	
9.08 Dredge Boat Channel	
9.09 Enforcement Blitz	
9.10 Ground Water Monitoring	
9.11 Increased Garbage Pick Up	
9.12 Pond Inspection	
9.13 Install Garbage Cans & Signage	
9.14 Lake Core Samples	
9.15 Lake Level Monitoring	
9.16 Lake Water Quality	
9.17 (Aquatic) Plant Restoration	
10.0 Implementation Plans	119
10.0 Anoka Conservation District	117
10.1 Crooked Lake Area Association	

Section	Page
Section	FAVE

- 10.2 Coon Creek Watershed District
- 10.3 City of Andover 10.4 City of Coon Rapids
- 10.5 Minnesota Department of Natural Resources