



FACILITIES DEVELOPMENT MANUAL

Wisconsin Department of Transportation

TABLE OF CONTENTS

Chapter 24: Land and Water Resources Impacts

Section 24-1 Introduction

- 24-1-1 General
 - 1.1 Originator
 - 1.2 Objectives
- 24-1-5 Ecological Overview
 - 5.1 Definition and Concepts
 - 5.2 Assessment
 - 5.3 Factor Sheet Reference List
 - 5.4 References

Section 24-5 Aquatic Systems

- 24-5-1 Introduction
- 24-5-5 Rivers, Streams and Lakes
 - 5.1 Evaluating Existing Conditions
 - 5.2 Evaluating Impacts on the Aquatic System
 - 5.3 Determination of Significance
 - 5.4 Measures to Minimize Harm
 - 5.5 Permits
 - 5.6 Factor Sheets
 - 5.7 Reference
- Attachment 5.1 Zonation of Lakes
- 24-5-10 Wetlands
 - 10.1 Evaluating Existing Conditions
 - 10.2 Evaluating Impacts on the Wetland
 - 10.3 Determination of Significance
 - 10.4 Measures to Minimize Harm
 - 10.5 References
- Attachment 10.1 The Hydrologic Cycle
- Attachment 10.2 Wetland Type Correspondence Table
- Attachment 10.3 Wisconsin Wetland Inventory - Map Order Form

Section 24-10 Terrestrial Systems

- 24-10-1 Introduction
 - 1.1 Characteristics of Terrestrial Communities
- 24-10-5 Forest Communities
 - 5.1 Existing Conditions
 - 5.2 Evaluating Impacts on the Forest Community
 - 5.3 Determination of Significance
 - 5.4 Measures to Minimize Harm
- 24-10-10 Non-Forested Communities
 - 10.1 Existing Conditions
 - 10.2 Evaluating Impacts on Non-Forested Communities
 - 10.3 Determination of Significance
 - 10.4 Measures to Minimize Harm
 - 10.5 References
- 24-10-15 Agricultural Lands
 - 15.1 Land Suitable for Cultivation and Other Uses
- 24-10-20 Natural Areas
 - 20.1 Definitions
 - 20.2 Effects on WisDOT Project Activity

Section 24-15 Wildlife

- 24-15-1 Introduction
- 24-15-5 Impacts-Design
- 24-15-10 Impacts - Construction
 - 10.1 Clearing and Grubbing
 - 10.2 Stripping Top Soil
 - 10.3 Earthmoving
 - 10.4 Construction Noise
 - 10.5 Structures in Waterways
 - 10.6 Roadway Barrier and Rights-of-Way
- 24-15-15 Impacts - Operations
- 24-15-20 Impacts - Maintenance
 - 20.1 Factor Sheets
 - 20.2 References

Section 24-20 Endangered Species

- 24-20-1 Introduction
- 24-20-5 Federal Implementation
 - 5.1 Definitions
 - 5.2 References
- 24-20-10 State Law
 - 10.1 Effects on WisDOT Project Activity

Section 24-25 Bibliography

- 24-25-1 List of References