

LOWER PASSAIC RIVER COMPREHENSIVE RESTORATION PLAN (P-CRP)

Table of Contents

Vision Statement

Table of Contents

- 1.0 Introduction
 - 1.1 Background
 - 1.2 Study Description
 - 1.3 Study Area Description

- 2.0 Study Purpose and Need
 - 2.1 Statement of Problems and Opportunities
 - 2.1.1 Restoration Opportunity Identification
 - 2.1.1.1 Restoration Reference Sites
 - 2.1.1.2 Restoration Opportunities Identified
 - 2.2 Study Goals and Objectives

- 3.0 Existing Conditions
 - 3.1 Climate
 - 3.2 Geology
 - 3.3 Soils
 - 3.4 Topography
 - 3.5 Hydrology
 - 3.5.1 Surface Water
 - 3.5.2 Floodplains
 - 3.5.3 Groundwater
 - 3.6 Water Quality
 - 3.7 Ecosystems and Habitats
 - 3.7.1 Fisheries
 - 3.7.2 Wetlands
 - 3.7.3 Terrestrial Ecosystems
 - 3.8 Air Quality
 - 3.9 Open Space
 - 3.9.1 Waterways/Waterbody Areas
 - 3.9.2 Parklands
 - 3.10 Contamination
 - 3.10.1 Sources
 - 3.10.1.1 Point Sources
 - 3.10.1.2 Non-point Sources
 - 3.10.1.3 Sediment
 - 3.10.1.4 Air Deposition
 - 3.10.2 Contaminants of Concern
 - 3.10.2.1 Inorganics
 - 3.10.2.2 Organic Compounds
 - 3.10.2.3 Dioxin/Furan
 - 3.10.2.4 PCBs
 - 3.10.2.5 PAHs

- 4.0 Restoration Alternatives Analysis
 - 4.1 Introduction
 - 4.2 Overview and Methods
 - 4.2.1 Habitat Evaluation Procedure (HEP)
 - 4.2.2 Hydrogeomorphic (HGM) Approach
 - 4.2.3 Rapid Bioassessment Protocols (RPBs)
 - 4.3 No-Action Alternative
 - 4.4 Screening of Alternative Restoration Measures
 - 4.4.1 Restore Wetland Hydrology
 - 4.4.2 Restore River Morphology and Structure
 - 4.4.3 Remove Manmade Structures
 - 4.4.4 Remove Trash and Debris
 - 4.4.5 Dredge Contaminated Sediment
 - 4.4.6 On-site Contamination Attenuation
 - 4.4.7 Invasive Vegetative Species Control
 - 4.4.8 Plant Native Species
 - 4.4.9 Restore Fish Passage
 - 4.4.10 Nuisance Wildlife Control
 - 4.4.11 Improve Public Access
 - 4.4.12 Control Non-Point Source Run-off
 - 4.4.13 Control STP Discharge Quality
 - 4.5 Selection of Restoration Alternatives
 - 4.5.1 Candidate Restoration Site Screening
 - 4.5.2 Candidate Site Selection Criteria
 - 4.5.3 Candidate Restoration and Reference Site Selection
 - 4.6 Alternatives Analysis Summary
 - 4.6.1 Consistency with P-CRP Goals and Objectives
 - 4.6.2 Preferred Alternative Selection
- 5.0 Implementation Plan
 - 5.1 Introduction
 - 5.2 Implementation Plan Overview
 - 5.3 Restoration Approach
 - 5.3.1 Open Water Habitats
 - 5.3.1.1 Candidate Restoration Areas: Open Water
 - 5.3.2 Tidal Wetland Habitats
 - 5.3.2.1 Candidate Restoration Areas: Tidal Wetland
 - 5.3.3 Riparian Habitats
 - 5.3.3.1 Candidate Restoration Areas: Riparian Habitats
 - 5.3.4 Upland Habitats
 - 5.3.4.1 Candidate Restoration Areas: Upland Habitats
 - 5.4 Summary

- 6.0 Performance Metrics and Monitoring
 - 6.1 Performance Metrics
 - 6.2 Monitoring Plan
 - 6.2.1 Performance Metrics: Water Quality
 - 6.2.1.1 Restored Area Monitoring
 - 6.2.1.2 Passaic River Monitoring
 - 6.2.2 Performance Metrics: Wetland Acreage
 - 6.2.2.1 Restored Area Monitoring
 - 6.2.2.2 Passaic River Monitoring
 - 6.2.3 Performance Metrics: Sediment Quality
 - 6.2.3.1 Restored Area Monitoring
 - 6.2.3.2 Passaic River Monitoring
 - 6.2.4 Performance Metrics: Vegetative Diversity
 - 6.2.4.1 Restored Area Monitoring
 - 6.2.4.2 Passaic River Monitoring
 - 6.2.5 Performance Metrics: Wildlife Species Abundance and Diversity
 - 6.2.5.1 Avian Monitoring
 - 6.2.5.2 Fisheries Monitoring
 - 6.2.5.3 Benthic Macroinvertebrate Monitoring
 - 6.2.5.4 Tissue Analysis
 - 6.2.6 Performance Metrics: Public Access
 - 6.2.6.1 Boat Usage
 - 6.2.6.2 Fishing Licenses Issued
 - 6.2.6.3 Surveys and Questionnaires
 - 6.2.6.4 Educational Opportunities

7.0 References

List of Tables
List of Figures
Appendices