

2010 Colorado Nonpoint Source Management Plan

Draft Outline

Executive Summary

Chapter 1 – Introduction

- 1.1 - Legal Authority
- 1.2 – Background (constrains i.e. limited funds, growth)
- 1.3 – Goals and Objectives – Watershed Approach
- 1.4 - Implementation of the Watershed Approach
- 1.5 – Financial Considerations, Constrains and Future Growth Impacts
- 1.6 – Other Sources of Funding

Chapter 2 – NPS Management Area Funding Process

- From application to project implementation
- WQCC role
- EPA role
- State role
- Division role

Chapter 3 – Nonpoint Source Management Strategy - framework (this chapter will capture a general discussion – more in-depth will be addressed in each chapter below)

- Overall Mission of NPS management - Restoration / Protection
- Planning Cycle - 5-Year Action Plan
- Rotating Target Basins
- Priority Watersheds
- Impaired Waterbodies - Restoring Water Quality / De-listing segments
- Development of Watershed Plans – EPA Required 9 Elements
- Organization and Stakeholder Involvement (NPS Alliance, Watershed Groups, ad hoc, non-profit org, other entities)
- Data Collection / Watershed Characterization
- ID and Prioritize Projects (coordinate w/ Impaired List, Assessment and TMDL)
- Implementation Strategy
- Measurable Results
- Post-project evaluation
- Assessing and Reporting Success

Chapter 4 – Goals and Objectives

4.1 – NPS Management Planning Goal

Objective 4.1.1 – Develop Watershed-based Plans

Align with WQCD's Strategic Plan

Align with 208 WQ Management Planning Documents (statewide and regional)

(incorporate Point Sources and Trading Cap discussion)

Priority Watersheds

Nine Key Elements

- 303(d) list of impaired waters
- Objective 4.1.2 – Utilize Interagency Cooperation
- 4.2 – NPS Program Implementation Goal
 - Objective 4.2.1 – Protect Water Quality
 - Water Quality Assessments
 - TMDL process as part of watershed planning
 - Objective 4.2.2 – Restore Water Quality
 - Water Quality Assessments
 - TMDL implementation
 - Objective 4.2.3 – Conduct Education and Outreach Activities
 - Strategic Approach to Education / Outreach (on-going process, behavior change)
 - Statewide Survey as framework
 - Community Based Social Marketing
 - Getting to Behavior Changes
 - Objective 4.2.4 – Determine Measurable Results
 - Sample for BMP implementation results (EDU collaboration (and others, including project sponsors), River Watch Program Collaboration)
 - Utilize watershed assessment tools (i.e. GIS)
 - Capture Sediment Load Reduction Data
 - Capture Total Nitrogen / Total Phosphorus Load Reduction Data and other constituents of concern (Selenium, metals)
 - Objective 4.2.5 – Utilize Interagency Cooperation

Chapter 5 – Nonpoint Source Categories

- Agriculture
- Forestry / Silviculture
- Stream Restoration / Stabilization
- Urban Runoff / Stormwater
- Hydromodification
- Recreation
- Mining
- Legacy issues associated with Oil & Gas Extraction Drilling*
- Transportation Corridor / Roads*
- Sediment / Nutrients*
- Energy Development / Renewable Sources (solar, geo-thermal)*
- Low Impact Development*

Chapter 6 – Unique Issues in Colorado

- 6.1 - Addressing Legacy Mining in Colorado
 - 6.1.1 - Assessment / Prioritizing
 - 6.1.2 - Partnerships
 - 6.1.3 - Implementing Best Management Practices
- 6.2 - Addressing Selenium in Colorado (Statewide Policy?)
- 6.3 - Addressing Lakes and Reservoirs
 - 6.3.1 - TMALs as assessment tools
 - 6.3.2 - Partnerships

- 6.3.3 - Implementing Best Management Practices
- 6.4 - Addressing Groundwater (*Wells, SWPP, pesticides, nitrates*)

Chapter 7 – Program Effectiveness Evaluation

- 7.1 - Improved Watershed Planning Efforts
- 7.2 - Efficient Implementation Projects
- 7.3 - Capturing NPS Pollutant Load Reduction
- 7.4 - Inspection of Implementation of NPS Controls
- 7.5 - Measures of Public Education, Awareness and Action
- 7.6 – Reporting
 - PPA PAMs
 - NPS Program Annual Report
 - Grants Tracking and Reporting System (GRTS)
 - Project Reporting
 - Success Stories
- 7.7 – Adaptive Management / Lessons Learned

Chapter 8 – Water Quality Performance Partners

- 8.1 – Federal (list and main NPS nexus)
- 8.2 – State (list and main NPS nexus)
- 8.3 – Local Governments (list and main NPS nexus)

Appendices

Grant Funding Cycle Process and Criteria

EPA’s Watershed Plan Minimum Requirements – (9 Elements)

Best Management Practices

Water Quality Sampling and Analyses Project Plan Template / Standard Operating Procedures