



General Core Monitoring Plan for the GCD-AMP

TWG Meeting
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Overview

- Background and Rationale for Plan
- General Framework
- Major Elements
- Staffing and Cost

Past TWG/AMWG actions

- TWG, AMWG and SOI approved the 4-Step core monitoring approach described and included in the FY 07-11 MRP

An Adaptive Core Monitoring Process (from 2007-2011 MRP)

- Annual Information Needs Workshop
- Protocol Evaluation Panel Reviews
- Detailed Core Monitoring Plans for each Resource Area

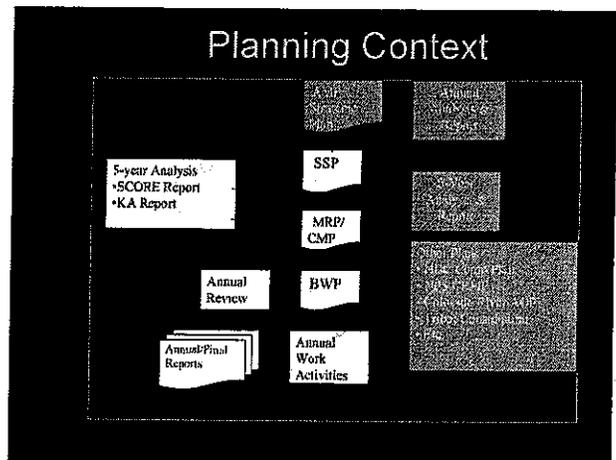


What is Core Monitoring

- *Consistent, long-term, repeated measurements using scientifically accepted protocols to measure status and trends of **key resources** to answer specific questions. Core monitoring is implemented on a fixed schedule regardless of budget or other circumstances affecting target resources (AMP Strategic Plan).*
- *Addresses monitoring of resources and CMINs associated with GCDAMP goals*

Programmatic Plan

- Outlines the general scope and objectives of the core monitoring program
- Identifies where we are headed and how & when to get there
- Plan will be incrementally implemented and modified based on experience, PEP reviews, and new information
- Estimates yearly \$\$\$ and staffing needs
- Plan will be incorporated into 2012-2017 MRP



Why is a Core Monitoring Plan Needed

- Fundamental to Adaptive Management
- Meet the requirement of Grand Canyon Protection Act
- Core Monitoring R&D consumes large portion of budget (~65%)
- Needed to support long term budget and staff planning
- Needed to resolve fundamental issues about the scope and direction of core monitoring

Foundational Elements

- AMP Strategic Plan and Core Monitoring Information Needs (Identify What, Where, When)
- Various TWG deliberations (core monitoring team, SPG, etc.)
- Independent reviews and guidance
 - NRC review of 1995 monitoring plan
- Inventories and Extensive R&D—Protocol development and testing
- Missing element: Desired Future Conditions (work in progress)

General Core Monitoring Plan Table of Contents

- Chapter 1. Introduction and Background
- Chapter 2. General Framework and Process for developing a Core Monitoring Program
- Chapter 3. General Core Monitoring Proposals by AMP goal
- Chapter 4. Data Management, Quality Assurance and Reporting
- Chapter 5. Management Strategy, Staffing and Budget



Program Cost

- Cost: \$6.3M/year
 - Consistent with independent estimates
 - Consistent with current Monitoring R&D expenditures and direction
 - Based on existing or anticipated work
 - Refined in detailed core monitoring reports/TWG deliberations
 - Suitable for general budget planning

Staffing

- 25 full time equivalents by 2015
 - Program management
 - Contracting/agreements
 - Data collection/analysis
 - Data Management
 - Reporting and publication
 - Logistics and survey support
- Shift in staff expertise
- Shift to permanent positions (19 to 26)

Review/Approval Process

- SA Review—August 2009
- TWG Review—December 2009 Workshop
- AMWG Update—February 2010
- TWG Review/Recommendation—March/June 2010
- AMWG Recommendation—Summer 2010

