GOLDEN GATE
WATERSHED IMPROVEMENT PROGRAM
TECHNICAL ADVISORY AD HOC
COMMITTEE MEETING
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Collier County

Watershed Management
and
Project Success Criteria

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Watershed Management

The process of implementing land use practices and water management practices to protect and improve the quality of the water and other natural resources within a watershed by managing the use of those land and water resources in a comprehensive manner.
Watershed Management

Effective watershed management includes both planning and implementation components.

While the development of a watershed plan is a critical step in the process, the plan must be successfully implemented before results can be seen.
Watershed Management

The watershed management process uses a series of cooperative, iterative steps to:

1. characterize existing conditions,
2. identify and prioritize problems,
3. define management objectives, and
4. develop and implement protection or remediation strategies as necessary.
A watershed approach provides:
- a coordinating framework for management
- that joins public and private sector efforts
- to address the highest priority water and land-related problems
- within hydrologically-defined geographic areas called watersheds
A watershed approach considers the effect of landscape-level changes on the watershed and seeks to incorporate multiple benefits in projects, including improvements in water quality, water supply, recreation, and habitat.
Watershed Management

A watershed approach also seeks to integrate projects and approaches across different agencies, organizations, and jurisdictional boundaries within a watershed.
Watershed Management

A watershed approach is the most effective framework to address today's water resource challenges.

Working together using a watershed approach will help protect our nation's water resources.
The Water Balancing Act

Health of Receiving Waters
Project Success Criteria

- What are success criteria and how are they used?
  - Criteria for assessing the importance, success and value of a project or course of action
  - Often associated with a rating scale
  - Many approaches
  - Criteria were summarized by category for the purpose of our discussion
Project Success Criteria: Natural Resources

- Hydrologic restoration
- Habitat restoration
- Magnitude of overall ecological restoration
- Water quality improvements/reduction in pollutant loads
- Increased aquifer recharge
- Protected species benefits/impacts
Project Success Criteria: Costs/Funding

- Benefit to cost ratio
- Cost per acre/per parcel/per capita
- Construction costs
- Land acquisition requirements
- Recurring operational and maintenance costs
- Grant award/funding potential
Project Success Criteria: Logistics or Efficiency

- Proximity to preserved lands
- Permitting complexity
- Construction feasibility
- Technical feasibility
- Completeness of the project
- Opportunity to be combined with other projects
- Consistency with strategic plans
- Implements, or improves compliance with, local, state, or federal laws/rules/requirements
Project Success Criteria: Community and People

- Reduce flood risks
- Support or enhance potable water supplies
- Size of benefit area
- Economic benefits
- Recreational or access opportunities
- Public support and NGO support
- Public safety improvements/reduction of hazards/increased resiliency
- Improvements to quality of life
Thank You!

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