Canal Management Guidance Document
Outline

1. Executive Summary

2. Introduction

2.1 History of the existing canal restoration program

2.2 Purpose and Need – Description of why the document is being produced,

2.2.1 Challenges associated with the existing Canal Restoration Approval Process

2.2.2 Summarize the requirements associated with funding sources and how they can impact the allocation of monies earmarked for restoration,

2.2.3 Describe how the existing regulatory framework (RAD, etc) impacts decisions regarding the canal selection process.

2.3 Stakeholders

2.3.1 Roles and responsibilities of Monroe County, WQPP, and the Canal Steering Committee.

2.3.2 Oversight responsibilities of the Florida Keys National Marine Sanctuary.

3. Establish Framework for Canal Restoration Approvals

3.1 Identify entities that can proceed with canal restoration

3.1.1 Detail the procedure for each entity to appoint a lead canal restoration representative that has authority to approve projects

3.2 Establish process by which a canal restoration project gets proposed and approved

3.3 Types of restoration projects for consideration

3.4 List the sources of funding

3.4.1 Detail constraints associated with the various funding sources (i.e. time frames, match requires, and types of projects)

3.5 Develop a review process that ensure the municipalities are approving projects that are aligned with the stated Goals of the Canal Management Master Plan

4. Summary of the Canal Management Master Planning & Demo Program

4.1 Summarize the development and findings of the Monroe County Canal Management Master Plan (CMMP) Phases I & II

4.2 Summarize the development & Implementation of the Demo Program

    4.2.1 Describe challenges associated with the permitting and construction of the projects

4.3 Program Monitoring Results.

5. Restoration Technology Selection Process

5.1 Types of restoration projects evaluated through the demonstration program that are available for implementation (narrative descriptions and engineering examples from the demonstration projects).

    5.1.1 Describe which site characteristics drive technology selection

5.2 Revise criteria for the identification of canals suitable for restoration

5.3 Homeowner approval requirements

5.4 Approach to evaluating of requests from the public

5.5 Cost sharing

6. Canal Ranking Evaluation

6.1 Revise scoring based on lessons learned during the demonstration projects

    6.1.1 Include an evaluation of geographical distribution

    6.1.2 Develop a re-vised canal evaluation sheet

6.2 Summary of canal rankings

7. Implementation of Canal Restoration Projects

7.1 Describe process for the identification and acquisition of canal restoration funds

7.2 Engineering design requirements

7.3 Permitting requirements and barriers to construction

7.4 Construction requirements

    7.4.1 Initiating the bid process

    7.4.2 Evaluation of bids and requisite qualifications

    Description of changes that have been made to the construction of the projects that have reduced cost

7.5 Construction oversight

    7.5.1 Construction Monitoring

    Construction Inspections

    Biological construction monitoring

7.6 Operation and Maintenance Issues to be considered that affect the long term cost of a project

8. Strategies for Improving Cost Efficiency

8.1 Project Grouping

    8.1.1 Benefits of grouping similar projects

        Packaging O & M of larger number of canals together

        Procurement of larger quantities of certain materials

        Reduction in permitting costs and review times

    8.1.2 Area focused restorations

        Reduced mobilizations

        Reduction in the number of outreach events

        Potentially beneficial to permitting

8.2 Establish standard engineering designs

8.3 Permit Fast Tracking

8.4 Pre-Established Schedule of Values.

    Development of an approved contractor list.

8.5 Pre-approve sources of materials

8.6 Schedules and Timelines

8.7 Standardize qualification process based on project type

9. Program Evaluation & Monitoring

9.1 Develop a defined monitoring schedule to collect the necessary sampling data to demonstrate compliance with state protocols.

9.2 Continue to use future data to refine project selection list, ie adjust priority canals based on trends in water quality.

10. Community Engagement

10.1   Detail ways to continually recruit community involvement,

    10.1.1 Develop a community driven platform (i.e. social media) for homeowners

10.2 Identify platforms where residents can share successes with their canal's success community

10.3 Look for opportunities during project design to improve community access and potential recreational use.

11. Conclusion and Recommendations