

SOUTH FLORIDA WATER MANAGEMENT DISTRICT – RECLAIMED WATER CONVEYANCE SYSTEM MASTER PLAN NORTHERN PALM BEACH AND SOUTHERN MARTIN COUNTIES

Client Name: *South Florida Water Management District*

Type of Service: *Reclaimed Water Regional Conveyance System*

Milian, Swain & Associates, Inc. (MSA) provided Professional Economic Evaluation Services for the Reclaimed Water Conveyance System Master Plan for Northern Palm Beach and Southern Martin Counties. The tasks performed included:

- Assisting in the evaluation of alternative institutional frameworks for the system, identifying the strengths and weaknesses of each alternative as well as the vehicle to implement each framework such as special legislation, inter-local agreements and purchase agreements. The frameworks evaluated included the following:
 - District lead in development/Local lead in operations
 - District lead in development/Authority lead in operations
 - Local lead in development and operations
 - Authority lead in development and operations
 - Private lead in development and operations.
- Identifying potential funding options such as grants, tax referendums, dedicated taxes and bonds, legislative appropriations, State Revolving Loans, user fees and purchase agreements, to construct and operate a reclaimed water conveyance system.
- Evaluating each funding option to show the appropriateness of that source to the institutional framework alternatives identified, describing strengths and weaknesses and projecting the revenues expected for each funding option and the cost per thousand gallons.
- Preparing 50-year present worth analysis for each identified funding option.
- Assisting in an evaluation of the regulations applicable to the study area that require, encourage, or restrain the use of reclaimed water. Included recommendations, as appropriate, to remove regulatory constraints to the use of reclaimed water and to encourage and require, when necessary, the use of reclaimed water.
- Assisting in the recommendation of the best alternative for the Northern Palm County Reclaimed Water Regional Conveyance System, identifying to what level the alternative met projected demands and identifying costs including design, permitting, construction, operation and maintenance.
- Detailed justifications were provided including:
 - Performance, including to what level the alternative meets the projected demands
 - Costs, including design, permitting, construction, operation and maintenance
 - Benefits and incentives

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- Regulatory constraints, including institutional constraints
 - Funding sources.
- Assisting in the preparation of an implementation strategy for the recommended alternative, including the following elements:
 - Institutional framework, including identification of the agencies that will be responsible for the design, permitting, financing, construction, and operation and maintenance.
 - Funding sources, including the level of funding required and the mechanisms required for realization of those funding sources
 - Incentives, including regulatory and non-regulatory programs. The implementation strategy included proposed language to amend state, regional, county, and local regulations and programs.
- Assisting in the preparation of two technical memoranda and in the preliminary draft evaluation reports and in the preparation of a final report incorporating the recommendations of the study and comments.
- Attending workshops and technical review meetings at the SFWMD offices and other locations.