

MIAMI-DADE WATER AND SEWER DEPARTMENT REUSE FEASIBILITY STUDY UPDATE

Client Name: *Miami-Dade Water & Sewer Department / Ecology and Environment, Inc. (Prime)*

Type of Service: *Study/Environmental Engineering Services*

The State of Florida has embraced wastewater reuse as an integral part of the development of water management strategies. The Miami-Dade Water and Sewer Department (MDWASD) requested the team comprised by Milian, Swain & Associates, Inc. (MSA) and Ecology and Environment, Inc. (E&E) to prepare a Wastewater Reuse Feasibility Study Update. The scope of services performed by MSA included the following tasks:

Reviewed current and proposed regulations and policies from the United States Environmental Protection (USEPA), from the Florida Department of Environmental Protection (FDEP), from the South Florida Water Management District (SFWMD) and from the Department of Environmental Resources Management (DERM). MSA summarized the relevant information obtained from this review.

Identified and defined potential major users that may be suitable for reuse. Participated in a technical working meeting, open to all stakeholders, to help identify these users as well as any constraints they may have.

Assessed technical and environmental feasibility and prepared cost estimates for three different reuse alternatives (low, medium, and high reuse) as well as for a “no action” alternative. Determined and evaluated the costs for each alternative using present worth analysis and calculated user charges and fees for each of the alternatives, including an additional recommended alternative that was added to the final report.

Prepared the following sections of the Reuse Feasibility Study based on the FDEP’s “Guidelines for Preparation of Reuse Feasibility Studies for Applicants Having Responsibility for Wastewater Management”:

- Present Value Analysis Worksheets
- FDEP Worksheets for Evaluation of Rates and Fees for Public Utilities

Participated and/or facilitated numerous meetings with stakeholders, including the various regulatory agencies, the Miami-Dade Board of County Commissioners, various Miami-Dade County’s Departments, as well as provided guidance and support in negotiation meetings with the various stakeholders.

Updated the report based on comments received from the various regulatory agencies.

