

Attachment B

QUALITY CONTROL PLAN

QUALITY CONTROL PLAN
ENVIRONMENTAL IMPACT STATEMENT AND MANAGEMENT PLAN STUDY
MIAMI RIVER DREDGING PROJECT
DADE COUNTY, FLORIDA

Prepared for

U.S. Army Corps of Engineers
Jacksonville District
Jacksonville, Florida

Prepared by

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Baton Rouge, Louisiana

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INTRODUCTION

Purpose

In accordance with U.S. Army Corps of Engineers (Corps) regulations, this Quality Control Plan (QCP) has been prepared pursuant to project preparation associated with completion of the draft Environmental Impact Statement (EIS), preparation of a final EIS, and preparation of a Management Plan Study (MPS) for the Miami River Dredging project in Dade County, Florida. The QCP describes the procedures to ensure delivery of a quality product that meets customer, schedule, and budget requirements; complies with all laws, policies, and technical criteria; establishes clear lines of accountability; and includes provisions for independent technical review. It will be updated, as necessary, on a timely basis if or when significant changes occur that impact the agreed upon QCP process.

Background

A preliminary assessment has not been conducted for the Miami River project. The MPS will utilize, to the fullest extent possible and where applicable, information contained in the December 1993 report *Alternatives for the Dredging and Disposal of Sediment From the Miami Harbor (Miami River) Project, Florida*. The information will be updated to reflect correct conditions on the river and subsequent data collection efforts and studies that have been completed since 1993. The scope of work addresses the work tasks, responsibility for their accomplishment and the schedule of performance.

Status

The Miami River Federal Project does not have a dredged material management plan nor disposal site for maintenance. The sponsor has extensive experience, outside resources, and funds to successfully secure an interim upland site for efficient disposal of shoal material in the channel. Significant shoaling restricts navigation and threatens to curtail operations. The depth and width near the channel center provide marginal clearance for the current vessel fleet operating at the port. However, those vessels require special handling in navigation the river because the deposited river sediments have reduced the effective channel dimensions that limit the vessel maneuvering area. Further, additional horsepower is needed to overcome the higher friction or drag effects between the vessel's hull and the bottom and side sediments. The removal of river sediments would allow small ships to more efficiently use the Miami River and would impede harmful sediments from being reintroduced into the river and possibly transported to Miami Bay.

MANAGEMENT STRUCTURE

Management Philosophy

G.E.C., Inc. (GEC) has over 20 years of experience in preparing environmental documents, management plans, and technical designs in accordance with Corps requirements for a wide range of projects throughout the United States. We take pride in our efforts, and it is reflected in the quality of our products. Comprised of a full complement of environmentally oriented professionals including engineers, scientists, biologists, archaeologists, geologists, and geotechnical and groundwater specialists, our multidisciplinary staff is ideally suited to perform project formulation; environmental impact analysis; evaluation of engineering, economic, social, archaeological, and environmental justice issues; as well as endangered species, wetlands, and hazardous waste characterizations.

Management Approach

Senior GEC management is directly responsible for the work performed at GEC and ensures that quality services are delivered by: (1) providing qualified management and staffing for each project, (2) serving as technical review team members, and (3) resolving any conflicts within a project team through coordination with the Project Manager and Technical Review Team Manager.

Management Structure

Client Relations

Charles E. Hinton

Client Manager

The highest position in the chain-of-command, the Client Manager is responsible for ensuring total client satisfaction by providing the link for all coordination and communications between the client and the Project Manager, and for final approval of all project management decisions relating to contract negotiations, project team staffing, and utilization of GEC resources.

Project Management Oversight

Cade E. Carter, Jr., P.E.

Project Manager

The project manager is responsible for day-to-day oversight and management of all project commitments, including its progress and timely completion, and the coordination of the project team's work effort. The project manager is also responsible for overall coordination with the Technical Review Team Manager. Specific duties related to the Project Manager's responsibilities to the Technical Review Team Manager include:

1. Scheduling timely and sufficient periods for review of the project;
2. Notification of upcoming review conferences;
3. Managing responses to technical review team memoranda; and
4. Consulting with the client, sponsor, and Client Manager, as necessary.

Project Team

Project team members are responsible to the Project Manager for completing all technical analyses and appendices associated with the project. GEC has designated the following personnel for the development of the EIS and MPS.

Subcontractor	Cultural Resources
Patrick MacDanel	Environmental Resources
Scott Knaus	CADD/GIS
Danny Maher	Economics
Cade E. Carter, Jr., P.E.	Environmental Engineering
Nancy Shaw	Production

Technical Review

Michael Loden, Ph.D. Technical Review Team Manager

GEC will utilize existing in-house OA/QC technical review processes for the feasibility study and ERR because of the availability of knowledgeable, skilled, and experienced G.E.C. staff. Such in-house technical reviews have proven advantageous on numerous projects with respect to time and cost considerations.

Technical Review Team

The technical review team is responsible for performing periodic, as well as the final, independent technical review of the EIS and MPS. The team will utilize ER 1110-1-12, Quality Management and EC 1165-2-203, Technical and Policy Review as references for performing their work. Duties of the team include:

1. Reviewing report contents for compliance with established principles and procedures;
2. Reviewing methods, procedures, and materials used in order to determine the appropriateness of project recommendations; and
3. Providing the technical review team leader with documentation of comments, issues, and decisions arising from the various reviews.

Each member of the technical review team has extensive experience in his respective field of expertise and is highly qualified to review the report in accordance with the aforementioned references. The team will consist of the following personnel:

Donald Ator	Federal Programs Division
Michael Loden, Ph.D.	Federal Programs Division
James F. Coerver, P.E., P.L.S.	Federal Programs Division

DESIGN TOOLS

GEC personnel will utilize several computer application programs pursuant to performing their work for this project. The company maintains and operates Microsoft Windows 95/98,

Windows NT/2000, and Unix platforms. Microsoft Office 97/2000 is used to support these platforms and provide integrated productivity applications.

Computer design applications often used in support of our Geographical Information System (GIS) include the latest releases of AutoCAD and MicroStation. GEC's GIS platforms operate software including ArcView, ARC/INFO, Mapinfo Professional, MGE, GeoMedia, and GeoMedia Web Map.

Finally, relational database and interface screen resources available to GEC personnel include Oracle, Informix, and Access.

PROJECT SCHEDULES

The attached schedule assumes that there will be no major changes or complications during the conduct of the management plan study phase.

Project Team Milestones

Contract Award and Notice to Proceed	April 2000
Quarterly Conference	May 2000
Quarterly Conference	August 2000
Quarterly Conference	November 2000
Draft Report	December 2000
Corps' Comments Regarding Draft Report	January 2001
Quarterly Conference	February 2001
Final Report	March 2001

Technical Review Team Milestones

Initial Conference and ITR Process Review	October 2000
Quarterly Conference	November 2000
Draft Report Review	December 2000
Quarterly Conference	January 2001
Final ITR Meeting and Final Review	March 2001