

MOBILE BAY NATIONAL ESTUARY PROGRAM

FIRST YEAR ANNUAL WORKPLAN JUNE REVISION 1997

**Mobile Bay National Estuary Program
440 Fairhope Avenue
Fairhope, AL 36532**

MBNEP 97-01

June 2, 1997

**RELATIONSHIP BETWEEN CLEAN WATER ACT REQUIREMENTS, EPA GUIDANCE,
AND NEGOTIATED MBNEP PRODUCTS**
(Revised 1 June 1997)

CWA REQUIREMENT	EPA GUIDANCE	MBNEP PRODUCT	DATE
Section 320 (b)(1) through (b)(4)	Priority Problem Identification	Management Conference Agreement, list of priority problems	August 1996
Section 320	Educate and Involve the Public	Public Participation Strategy	March 1997
Section 320 (j)(2),(d)	Data Management Strategy	Report	November 1997
	Establish a Program Office	Program Office	February 1996
Section 320 (j)(2)(D)	Program Inventory	Base Program Identification and Evaluation Survey, Regulatory Survey and Evaluation	November 1997
Section 320 (j)(2)(D)	Base Program Analysis	Base Program Identification and Evaluation Survey, Regulatory Survey and Evaluation	December 1997
Section 320 (b)(1) through (b)(3)	Characterization Report	Preliminary Characterization Reports; State of the Bay Report	May 1998; September 1998
Section 320 (b),(c),(d)	CCMP Development	CCMP Development	September 1999
Section 320 (b)	Federal Consistency Review	Federal Consistency Review Report; CCMP	September 1999
Section 320 (b)(5)	Implementation Agreement; Implementation Plans	Implementation Agreement; CCMP	September 1999
Section 320 (b)(5)	Financial Strategy	Financial Strategy; CCMP	September 1999
Section 320 (b)(6)	Monitoring Program	Monitoring Program	September 1999

TABLE 1
MOBILE BAY NATIONAL ESTUARY PROGRAM FIRST YEAR BUDGET
(Revised 1 June 1997)

WORK ELEMENT	GRANT(75%)	ST/LOCAL(25%)	TOTAL
1.0 SCIENTIFIC TECHNICAL ASSESSMENTS			
1.1 I.D. and Eval. of DIMS	9,168.00	3,057.00	12,225.00
1.2 Base Program I.D. and Eval.	TBD	TBD	TBD
1.3 Regulatory Baseline Study	21,524.00	7,175.00	28,699.00
1.4 Estab. of DIMS and Data Input	TBD	TBD	TBD
1.5.0 Prelim. State of the Bay Report	TBD	TBD	TBD
1.5.1 Prelim. WQ Char. Report	93,698.00	31,232.00	124,930.00
1.5.2 Prelim. Living Resources	24,547.00	8,182.00	32,729.00
1.5.3 Prelim. Habitat Loss	57,722.00	19,241.00	76,963.00
1.5.4 Prelim. Human Uses	24,000.00	8,000.00	32,000.00
1.6 CCMP Development	163,466.00	54,489.00	217,955.00
Action Plan Demonstration Projects	**TBD	**TBD	**TBD
Scientific/Technical Coordinator*	(34,796.00)	11,598.00	46,394.00)
7 months salary	20,297.00	6,766.00	27,063.00***
		SUBTOTAL	552,563.00
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2.0 PUBLIC PARTICIPATION AND EDUCATION			
2.1 Newsletter	2,250.00	750.00	3,000.00
2.2 Program Brochure and Poster	6,000.00	2,000.00	8,000.00
2.3 Portable Information Display	3,750.00	1,250.00	5,000.00
2.4 Fact Sheets	0	0	0
2.5 Public Participation Strategy	0	0	0
2.6 Speakers Bureau	0	0	0
2.7 Issue Workshops	3,000.00	1,000.00	4,000.00
2.8 Workshops	0	0	0
2.9 Action Plan Demonstration Projects	6,000.00	6,000.00*****	12,000.00
Public Outreach/Education Coordinator*	(30,413.00)	10,138.00	40,550.00)
7 months salary	17,741.00	5,914.00	23,654.00***
		SUBTOTAL	55,654.00
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3.0 PROGRAM ADMINISTRATION			
Director*	(50,838.00)	16,946.00	67,784.00)
3 months salary	12,710.00	4,236.00	16,946.00***
Interim Director****	22,350.00	7,450.00	29,800.00
Assistant to the Director	11,250.00	3,750.00	15,000.00
Secretary*	(16,139.00)	5,380.00	21,518.00)
3 months salary	4,035.00	1,345.00	5,380.00***
Travel/Training	3,750.00	1,250.00	5,000.00
Travel - Outreach & Technology	7,500.00	2,500.00	10,000.00
Rent (Furnished)	22,500.00	7,500.00	30,000.00
Office Furniture	4,550.00	1,500.00	6,000.00

TABLE 1
MBNEP FIRST YEAR BUDGET - continued

WORK ELEMENT	GRANT_(75%)	ST/LOCAL_(25%)	TOTAL
Office Supplies	7,500.00	2,500.00	10,000.00
Computer and Printer	0	0	0
Laptop Computer	1,775.00	625.00	2,500.00
Copier (includes FAX & Maintenance) 4 months	834.00	278.00	1,112.00
Fax	0	0	0
Overhead Projector	300.00	100.00	400.00
Slide Projector	0	0	0
Light Table	188.00	62.00	250.00
Portable Screen	188.00	62.00	250.00
TV-VCR Combination	375.00	125.00	500.00
Wireless Microphone	311.00	103.00	414.00
Phone Equipment/Installation	3,375.00	1,125.00	4,500.00
Phone (monthly)	3,600.00	1,200.00	4,800.00
Networking (LAN & Internet)	1,500.00	500.00	2,000.00
Computer Software	1,500.00	500.00	2,000.00
Mailing List Maintenance	0	0	0
Postage	7,500.00	2,500.00	10,000.00
Subscription Dues	750.00	250.00	1,000.00
Meeting/Workshop Advertising	750.00	250.00	1,000.00
Job Announcement Advertising	1,817.00	606.00	2,423.00
Request for Proposal Advertising	188.00	62.00	250.00
Meeting Space Rental	750.00	250.00	1,000.00
		SUBTOTAL	162,525.00
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FSCC Administration (@.06x709,878.75 (cash))	31,944.00	10,648.00	42,592.00
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Subtotals	607,000.00	206,333.00	813,333.00
FIRST YEAR BUDGET TOTAL			813,333.00

* Includes Fringe Benefits (FICA/Medicare @.0765; Retirement @.0923; Insurance @\$165/mo)

** Project will be funded as described in Work Element 1.6

*** Costs used for estimating FY97 budget

**** Interagency Personnel Act Agreement with US Army Engineer District, Mobile (includes 60% full time, 6 months, and fringe)

***** Cost share shown is amount being provided by local entities

TABLE 2
MOBILE BAY NATIONAL ESTUARY PROGRAM
TIMETABLE FOR FIRST YEAR ANNUAL WORKPLAN
REVISED JUNE 1997

Milestone/Project	1997											
	02/96	04/96	06/96	08/96	10/96	12/96	02/97	04/97	06/97	08/97	10/97	12/97
Program Office	***02/96				**11/96		*****04/97					
Quarterly Reports	*****	*****06/96	*****10/96	*****02/97	*****06/97	*****10/97						
Management Conference Agreement	*****08/96											
Priority Problems Identification	*****06/96				*****02/97							
Draft Second Year Workplan					*****06/97							
Final Second Year Workplan					*****07/97							
Program Inventory					*****12/96							
Public Participation Strategy					*****06/97							
Data Management Strategy					*****02/97							
Base Program Analysis												
Preliminary Characterization Reports												
"State of the Bay" Report												

*****05/98
 *****09/98

TABLE 3
MILESTONE SUMMARY AND SCHEDULE
PERIOD OF PERFORMANCE: October 1, 1996 - September 30, 1997
(Revised 1 June 1997)

Activity.....Target Date

Work Element 1.0: Scientific/Technical Assessments

Task 1.1 Identification and Evaluation of Data and Information Management System

Project Workplan.....07/01/97
Monthly Progress Reports.....Monthly
Draft Report.....09/30/97
Final Report.....11/15/97

Task 1.2 Base Program Identification and Evaluation Strategy

Project Workplan.....08/01/97
Monthly Progress Reports.....Monthly
Draft Report.....10/30/97
Final Report.....12/15/97

Task 1.3 Regulatory Survey and Evaluation (Regulatory Baseline Study)

Project Workplan.....07/01/97
Monthly Progress Reports.....Monthly
Draft Report.....09/30/97
Final Report.....11/15/97

Task 1.4 Establishment of Data and Information Management System

Project Workplan.....TBD
Monthly Progress Reports.....Monthly
Draft Report.....TBD
Final Report.....TBD

Task 1.5.0 Preliminary "State of the Bay" Report for Mobile Bay

Project Workplan.....05/01/98
Monthly Progress Reports.....Monthly
Draft Report.....07/01/98
Final Report.....09/01/98

Task 1.5.1 Preliminary Characterization of Water Quality for MBNEP

Project Workplan.....07/01/97
Quarterly Progress Reports.....Quarterly
Draft Report.....01/30/98
Final Report.....03/15/98

TABLE 3 - MILESTONE SUMMARY AND SCHEDULE (Continued)

Task 1.5.2 Preliminary Status and Trend Report of Current and Historical Living Resources within the MBNEP Study Area

Project Workplan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	03/30/98
Final Report.....	05/15/98

Task 1.5.3 Preliminary Characterization of Habitat Loss for MBNEP

Project Workplan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	03/30/98
Final Report.....	05/15/98

Task 1.5.4 Characterization of the Human Uses of the MBNEP Study Area

Project Workplan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	03/30/98
Final Report.....	05/15/98

Task 1.6 Development of the Comprehensive Conservation and Management Plan

Project Workplan.....	TBD
Quarterly Progress Reports.....	Quarterly
Draft Report.....	TBD
Final Report.....	TBD

Work Element 2.0: Public Participation and Education

Task 2.1 Newsletter

First Newsletter.....	07/01/97
Second Newsletter.....	09/01/97

Task 2.2 Program Brochure and Poster

Draft Brochure.....	07/01/97
Final Brochure.....	09/01/97

Task 2.3 Portable Informational Display

Photograph of Completed Portable Display.....	09/30/97
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Task 2.4 Fact Sheets

Copies of Completed Fact Sheets.....	As Available
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Task 2.5 Public Participation Strategy

Draft Public Participation Strategy.....	12/31/96
Review and Begin Finalizing Strategy.....	09/01/97

TABLE 3 - MILESTONE SUMMARY AND SCHEDULE (Continued)

Task 2.6 Speakers Bureau

List of Target Groups.....	03/01/97
Recruit Volunteers.....	07/01/97
Develop Training Sessions.....	09/30/97

Task 2.7 MBNEP Issue Workshops

Recommend Subgroups and Schedule Initial Meetings.....	02/01/97
Submit Reports and Proposed Work Items.....	06/01/97
Continue Development of CCMP Action Items.....	Ongoing

Task 2.8 MBNEP Workshops

Identify Workshops and Develop Implementation Plans.....	Ongoing
Report Results.....	09/30/97

Task 2.9 MBNEP Action Plan Demonstration Projects

Establish Selection Criteria.....	03/31/97
Identify Initial Projects to be Funded.....	04/30/97
Recommend Additional Year One Projects.....	06/30/97
Final Report to Management Conference.....	09/30/97

Work Element 3.0: Program Administration

Task 3.1 Program Administration

Program Quarterly Reports.....	Quarterly
Program Final Report.....	08/31/97
Management Conference Meeting Minutes.....	As available
Updates to Management Conference Directory.....	As available

1.1 Identification and Evaluation of Data and Information Management System (MIS/GIS)

Performing Organization:	Southeast Digital Mapping, LLC
Principal Investigator:	Mr. Phillip Thiel
Total Funding:	\$12,225
Priority Issues:	All
MBNEP Project Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

Development of an accessible information management system, which integrates Mobile Bay data pertinent to Bay management, is important to the MBNEP. The Data and Information Management System (DIMS) will become a centralized source of information for Mobile Bay. It will be a GIS-based information system with linkages to additional data resources. It will include an information center for Bay-related publications, as well as, additional computer databases and files. The DIMS will serve as the focus for collection and analysis of new data gathered during the course of various scientific/technical investigations and during development of the CCMP. It will provide for general access to technical and nontechnical information during CCMP development and implementation. The DIMS is critical for adequate characterization of Mobile Bay. The identification and evaluation of all GIS systems will be conducted in coordination with the MBNEP Management Conference, and other agencies.

Specific Project Objectives:

- 1.1.1** Identify necessary requirements for a DIMS, taking into account the following:
 - a) Current Bay-related research and resource management efforts.
 - b) Currently available GIS resources in the area.
 - c) All potential and useful data formats (such as those proposed by the GOMP), historical data formats, and expected new characterization data to be collected by the MBNEP.
 - d) Long-term requirements of the system.
- 1.1.2** Compile specific recommendations for hardware and software components for the system (e.g., specific hardware, server, CD-ROM, fixed media, specific operational and analytical software requirements, databases, GIS software, client and server, etc.) and methods of linkage and access (e.g., system schema, communication protocols and access methods). Additionally, the DIMS is required to be user-friendly with a safe and secure system for data storage and access.
- 1.1.3** Compile a draft feasibility report for DIMS alternatives and prioritize the alternatives by capabilities, cost, and time and difficulty of implementation.
- 1.1.4** Choose and specify the DIMS to be recommended for use by the MBNEP Management Conference.

Project Deliverables/Schedule:

Project Workplan.....	07/01/97
Monthly Progress Reports.....	Monthly
Draft Report.....	09/30/97
Final Report.....	11/15/97

Project Budget:

Federal (EPA):	\$ 9,168
State/Local:	<u>\$ 3,057</u>
 TOTAL	 \$12,225

1.2 Base Program Identification and Evaluation Survey (Baseline Study)

Performing Organization:	TBD
Principal Investigator:	TBD
Total Funding:	\$15,000
Priority Issues:	All
MBNEP Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

This project will serve to characterize the existing resource management framework for the MBNEP study area. Historical and current base programs/approaches to resource management will be examined, and an identification made of the significant gaps or overlaps in organizational roles and authorities. Efforts will be taken to coordinate the project with other similar programs and projects to build upon and ensure that efforts are not duplicated. The project will be coordinated with the Data and Information Management Strategy work element.

Specific Project Objectives:

- 1.2.1 Conduct an institutional inventory of resource management programs to identify those programs most likely to influence conditions in the study area.
- 1.2.2 Analyze these programs in accordance with EPA Base Program Analysis guidance documents.
- 1.2.3 Recommend preliminary management enhancements or alternatives to be considered for inclusion in the CCMP.

Project Deliverables/Schedule:

Project Workplan.....	08/01/97
Monthly Progress Reports.....	Monthly
Draft Report.....	10/30/97
Final Report.....	12/15/97

Project Budget:

Federal (EPA):	\$11,250
State/Local:	<u>\$ 3,750</u>
TOTAL	\$15,000

1.3 Regulatory Survey and Evaluation (Regulatory Baseline Study)

Performing Organization:	Coastal Policy Initiative, Dauphin Island Sea Lab
Principal Investigator:	Dr. George C. Crozier
Total Funding:	\$28,698
Priority Issues:	All
MBNEP Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

This project will serve to characterize the existing regulatory management framework for the MBNEP study area. Historical and current regulatory programs/approaches to resource management will be examined, and significant gaps or overlaps in organizational roles and authorities will be identified. Efforts will be made to coordinate the project with other similar programs and projects to build upon and ensure that efforts are not duplicated. The project will be coordinated with the Data and Information Management Strategy work element.

Specific Project Objectives:

- 1.3.1** Conduct a regulatory survey of resource management programs to identify those programs most likely to influence conditions in the study area.
- 1.3.2** Analyze the regulatory programs in accordance with EPA Base Program Analysis guidance documents.
- 1.3.3** Recommend preliminary management enhancements or alternatives to be considered for inclusion in the CCMP.

Project Deliverables/Schedule:

Project Workplan.....	07/01/97
Monthly Progress Reports.....	Monthly
Draft Report.....	09/30/97
Final Report.....	11/15/97

Project Budget:

Federal (EPA):	\$16,060
State/Local:	<u>\$12,638</u> (Match provided by DISL as inkind services)
TOTAL:	\$28,698

1.4 Establishment of Data and Information Management System (MIS/GIS) and Data Input into MIS/GIS

Performing Organization:	TBD
Principal Investigator:	TBD
Total Funding:	TBD
Priority Issues:	All
MBNEP Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

The DIMS is critical to all aspects of the MBNEP workplan. It will serve as the center for existing and on-going data collection and storage, relative to the MBNEP. It will be GIS-based with linkages to additional data resources. It will be generally accessible, user-friendly, and designed for different levels of user applications (both technical and non-technical) with a safe and secure system for data access and storage. The project workplan will be developed with the Technical Advisory Committee (TAC).

Decisions regarding the establishment of (and data input into) the DIMS are contingent upon Project 1.1 - Identification and Evaluation of DIMS (MIS/GIS). The specific project objectives, project schedule, and project budget (for Project 1.4) are to be decided after the TAC reviews the DIMS alternatives provided by Project 1.1 and a system has been selected.

1.5.0 Preliminary "State of the Bay" Report for Mobile Bay

Performing Organization:	TBD
Principal Investigator:	TBD
Total Funding:	Carry Over to FY98
Priority Issues:	All
MBNEP Coordinator:	Lisa Mills / Danny Calametti
MBNEP Designated Reviewer:	MBNEP Management Conference

The information and recommendations from work elements 1.2, 1.3, 1.5.1, 1.5.2, 1.5.3, and 1.5.4 will be incorporated into a preliminary "State of the Bay" report. This report will synthesize the results of work from the individual work elements into a comprehensive document, which will be presented to the public.

Project Deliverables/Schedule:

Project Workplan.....	05/01/98
Monthly Progress Reports.....	Monthly
Draft Report.....	07/01/98
Final Report.....	09/01/98

Project Budget:

1.5.1 Preliminary Characterization of Water Quality for MBNEP

Performing Organization:	Thompson Engineering Testing, Inc.
Principal Investigator:	Mr. Emery Baya
Total Funding:	\$124,930
Priority Issues:	All
MBNEP Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

The Mobile Bay NEP estuary has been the subject of many studies to characterize the physical, chemical, biological, and sedimentological components and processes in the Bay. Most previous investigations and monitoring programs, however, targeted on individual components and/or processes of the Bay ecosystem or, in some cases, a limited number of interactions between components were examined. Little work has been done to integrate the wealth of information on the individual components and processes into a characterization framework. A characterization of water quality in Mobile Bay will ensure that: 1) the MBNEP characterization is focused on the highest priority information needs and 2) that assessments are obtained on information gaps to properly evaluate the possible problems prior to delineation of the CCMP. Efforts will be made to utilize existing research previously identified. The project will be coordinated with the Data and Information Management Strategy work element.

Specific Project Objectives:

- 1.5.1.1 Literature Survey and Evaluation (Literature Baseline Study)**
Conduct a literature survey. Evaluate for any similar sets of literature and any specific areas of literature. This is to be considered an information baseline study.
- 1.5.1.2 Identification and Evaluation of Existing Data Sets**
Identify and evaluate the existing data sets, and comment on validity.
- 1.5.1.3 Identification of Data Gaps**
From the existing data sets, identify data gaps and any areas where there exists no similar data or no data for any areas of concern identified in Attachment 1.
- 1.5.1.4 Recommendations for Additional Data Collection and Analyses**
From 1.5.1.3 above, recommend the collection of additional data for identified gaps or for parameters, areas, or problems for which there exists no data/analyses, or where no reliable data exists.
- 1.5.1.5 Historical Data Characterization Summary**

Project Deliverables/Schedule:

Project Workplan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	01/30/98
Final Report.....	03/15/98

Project Budget:

Federal (EPA):	\$ 93,698
State/Local:	<u>\$ 31,232</u>
 TOTAL	 \$124,930

1.5.2 Preliminary Status and Trend Report of Current and Historical Living Resources within the MBNEP Study Area

Performing Organization:	Auburn University Marine Extension & Research Center
Principal Investigator:	Dr. Richard Wallace
Total Funding:	\$32,729
Priority Issues:	All
MBNEP Project Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

The current status and historical trends of living resources within Mobile Bay Estuary are required to characterize the study area. Based on a review of existing scientific literature, the current status, temporal and spatial variability, abundance, and distribution of populations of economically and ecologically important estuarine species (e.g., plankton, shrimp, oysters, crabs, finfish, birds, reptiles, mammals, amphibians) in Mobile Bay will be identified. Resource conditions characterized by declining population trends, habitat requirements, major factors affecting population, threatened and endangered species as well as population dynamics will be targeted for analyses. The project will be coordinated with the Data and Information Management Strategy work element.

Specific Project Objectives:

- 1.5.2.1 Literature Survey and Evaluation (Literature Baseline Study)**
Conduct a literature survey of all items (this is to include published and non-published literature -- additional applicable literature should be identified accordingly) Evaluate the literature for any similar sets of literature and any specific areas of literature. This is to be considered an information baseline study.
- 1.5.2.2 Identification and Evaluation of Existing Data Sets**
Identify and evaluate the existing data sets, and comment on validity.
- 1.5.2.3 Identification of Data Gaps**
From the existing data sets, identify data gaps and any areas where there exists no similar data or no data for any areas of concern identified in Attachment 1.
- 1.5.2.4 Recommendations for Additional Data Collection and Analyses**
Review priority problems and historical data to determine analyses to be conducted on existing data and to determine new investigations needed to gather and analyze additional data, or where no reliable data exists.
- 1.5.2.5 Historical Data Characterization Summary**
Compile preliminary status and trends reports based on existing information.
Report will explicitly address historical trends, current status and human influences in

Mobile Bay.

Project Deliverables/Schedule:

Project Work Plan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	03/30/98
Final Report.....	05/15/98

Project Budget:

Federal (EPA):	\$24,547
State/Local:	<u>\$ 8,182</u> (AUMERC providing \$1,802 match as inkind services)
TOTAL	\$32,729

1.5.3 Preliminary Characterization of Habitat Loss for MBNEP

Performing Organization:	Dauphin Island Sea Lab
Principal Investigator:	Dr. Judy P. Stout
Total Funding:	\$76,962
Priority Issues:	All
MBNEP Project Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

Historic coastal area and drainage basin developments and alterations have caused changes in the quality and abundance of critical habitats in the Mobile Bay NEP area. Natural forces also create habitat changes, and may be important than development-related impacts in some cases. Shoreline changes in sediments and bathymetry (e.g., shoaling), land use patterns, wetland losses and hydrologic modifications can serve as indicators of man-induced and natural impacts on estuarine ecosystems. Characterizations of the status of key habitat types in the MBNEP area will be accomplished in three steps: 1) collection and compilation of existing information from previous habitat studies in this area; 2) collection of information needed to update habitat status; and 3) preparation of a characterization report on habitat status and trends. The project will be coordinated with the Data and Information Management Strategy work element.

Specific Project Objectives:

- 1.5.3.1 Literature Survey and Evaluation (Literature Baseline Study)** Conduct a literature survey of appropriate agencies, institutions, and individuals to identify previous or on-going habitat characterization studies and programs. Evaluate the literature for any similar sets of literature and any specific areas of literature. This is to be considered an information baseline study.
- 1.5.3.2 Identification and Evaluation of Existing Data Sets**
Collect and compile pertinent habitat information, including maps, reports and data. Identify and evaluate existing data sets and comment on validity.
- 1.5.3.3 Identification of Data Gaps**
Identify data gaps from the existing data sets which must be filled to produce an accurate habitat status and trends report.
- 1.5.3.4 Recommendations for Additional Data Collection and Analyses**
Recommend additional habitat studies, investigations, analyses and data based on existing data and data gaps.

1.5.3.5 Historical Data Characterization Summary

Compile preliminary habitat reports based on existing information and include:

- 1) annotated bibliography;
- 2) summary report describing the information and data available to describe the status of each critical habitat typed addressed
- 3) description of information gaps and priorities for obtaining additional information.

Project Deliverables/Schedule:

Project Work Plan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	03/30/98
Final Report.....	05/15/98

Project Budget:

Federal (EPA):	\$57,721
State/Local:	<u>\$19,241</u> (DISL providing \$12,638 match as inkind services)
TOTAL	\$76,962

1.5.4 Characterization of the Human Uses of the Mobile Bay NEP Study Area

Performing Organization:	University of South Alabama
Principal Investigator:	Dr. Steve Thomas
Total Funding:	\$32,000
Priority Problem:	All
MBNEP Project Coordinator:	Lisa Mills
MBNEP Designated Reviewer:	TAC

This project will provide a baseline characterization of the social values and related economic trends affecting the MBNEP study area by describing the historical, current, and probable future human uses of the various estuarine resources found within the study area. This project will provide the basis for future socioeconomic evaluations of conflicting bay-dependent activities and proposed management strategies contained in the developing CCMP.

Specific Project Objectives:

- 1) Research and compile existing data and information describing: a) historical and current human uses of estuarine resources; b) demographic trends; c) socioeconomic trends; d) social trends/attitudes towards bay usage; and, e) direct and indirect economic value of bay natural resources into a comprehensive inventory of direct and indirect socioeconomic uses of the MBNEP study area.
- 2) Utilizing existing data, identify and discuss environmental stressors attributable to human use and alteration of bay resources.
- 3) Identify user groups and characterize: a) the nature of the dependence of these groups on the bay; b) the inter-relationships (i.e. inter-dependence or competition) amongst the different groups; and, c) the association of these groups to the stressors identified above.
- 4) Project future trends in human usage of the natural resources of the study area, and the socioeconomic consequences resulting from those trends into the year 2020.
- 5) Compile the results of the analysis into a comprehensive assessment of historical, current, and future human uses and societal pressures upon the natural resources of the MBNEP study area. The final report will contain recommendations for future study, public surveys, etc.

Project Deliverables/Schedule:

Project Workplan.....	07/01/97
Quarterly Progress Reports.....	Quarterly
Draft Report.....	03/30/98
Final Report.....	05/15/98

Project Budget:

Federal (EPA):	\$24,000
State/Local:	<u>\$ 8,000</u>
 TOTAL	 \$32,000

1.6 Development of the Comprehensive Conservation and Management Plan

Performing Organization:	TBD
Principal Investigator:	TBD
Total Funding:	\$218,955
Priority Issues:	All
MBNEP Coordinator:	MBNEP Program Director
MBNEP Designated Reviewer:	MBNEP Management Conference

This effort will assist the Management Conference with the Development of the Comprehensive Conservation and Management Plan (CCMP). The Management and Policy Committee, with assistance from the Technical and Citizen Advisory Committees, will determine the scope of the activities that are ultimately selected. These activities may include final resource characterization, technical investigations to resolve unknown problems, interagency coordination for CCMP development, and action plan demonstration projects (APDPs).

Project Budget:

Federal (EPA):	\$164,216
State/Local:	<u>\$ 41,976</u>
TOTAL	\$218,955

2.0 Public Participation and Education

The successful development of a truly consensus-based Comprehensive Conservation and Management Plan (CCMP) will require that the MBNEP invest resources in the planning and implementation of a public participation strategy. All segments of the community must be given the opportunity to understand the Program's goals and objectives and contribute local knowledge, ideas, and recommend solutions to the development of a resource management strategy. The MBNEP, through the leadership of the Program Office, will conduct a highly visible public outreach program during the first year of CCMP development. The public participation and education activities have been formulated to support a draft Public Participation Strategy that will be available for review in December 1996.

The goals of the public participation and education program are 1) to educate the public (including elected officials) on the goals and purpose of the MBNEP; 2) to educate the Mobile Bay community of the parameters of the study area and the nature of some of the challenges facing the bay system, and; 3) to allow the community to provide direct input in the development of management solutions.

Providing the public with information about the MBNEP's goals and the state of the estuary system (including the preliminary priority problems) is the first step towards involving citizens in the decision-making process. The public participation and education program will lay the groundwork for establishing

consensus among the various user groups on the need to protect the bay system for future use by all segments of the community. This will lead to the successful development and implementation of the CCMP.

Public outreach and education efforts in the program's first year will focus on three (3) objectives: 1) informing the public about the presence and purpose of the MBNEP; 2) developing regular mechanisms to keep the public interested and involved in the developing CCMP through opportunities for public input, and; 3) reporting on the progress of the MBNEP to the Mobile Bay community. All scientific/technical elements of the public participation and education program will be coordinated with the Technical Advisory Committee (TAC).

2.1 MBNEP Newsletter

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$3,000
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti
MBNEP Designated Reviewer:	Citizens Advisory Committee

The MBNEP will provide regular information to the Management Conference through the issuance of a newsletter. It is possible that this effort will be jointly produced with the Alabama Department of Economic and Community Affairs, Coastal Program and/or other entities such as the Alabama Coastal Foundation. During the first year, in addition to publishing 2 issues of the newsletter, a decision will be reached concerning the most efficient means of providing information to target audiences at the most efficient economic means.

Each issue will include easily understood articles about the program and the study area that are of interest to a variety of users. Approximately 2,000 copies will be printed and distributed to a mailing list and at various meetings and public events.

Regular features may include a column on opportunities for personal involvement and action in the MBNEP; profiles of one of the many diverse aspects of the MBNEP study area; facts about the estuary system and its history; and a calendar of upcoming events. Each newsletter will likely include a small map indicating the scope of the study area and a brief explanation of the MBNEP for readers who may not have seen other MBNEP materials. In addition, the MBNEP will include articles written by the local Mobile Bay community regarding MBNEP activities.

Specific Project Objectives:

- 1) Compile MBNEP mailing list. Maintain continuous update of list.
- 2) Develop story bank of articles and topics solicited from Management Conference and other contributors.
- 3) Print and distribute two issues during the first year.
- 4) Develop plan for newsletter preparation in subsequent years.

Project Deliverables / Schedule:

First Newsletter.....	07/01/97
Second Newsletter.....	09/01/97

Project Budget:

Federal (EPA):	\$ 2,250	
State/Local:	<u>\$ 750</u>	(FSCC inkind)
TOTAL	\$ 3,000	

2.2 MBNEP Program Brochure and Poster

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$8,000
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti
MBNEP Designated Reviewer:	Citizens Advisory Committee

The first MBNEP program brochure and poster will serve primarily to introduce the community to the goals and objectives of the National Estuary Program, and those of the MBNEP in particular. The brochure and poster will be aimed at a general audience, and will be widely distributed to public organizations, government agencies, libraries, etc. throughout the Mobile Bay community. The brochure and poster will be designed and produced by a special subcommittee of the CAC, under the overall direction of the Program Office. Approximately 10,000 copies of the full-color brochure and poster will be printed.

Specific Project Objectives:

- 1) Collect sample brochures from other organizations.
- 2) Develop cost estimate for photos, art work, layout and printing.
- 3) Identify potential format(s) for brochure and costs associated with each; recommend best format(s) to CAC.
- 4) Develop summary of brochure's content; work with members of the Management Conference and others to write copy and choose graphics and art work.
- 5) Publish and distribute brochure.

Project Deliverables / Schedule:

Draft Brochure / Poster.....	07/01/97
Final Brochure / Poster.....	09/01/97

Project Budget:

Federal (EPA):	\$ 6,000	
State/Local:	<u>\$ 2,000</u>	(FSCC inkind)
TOTAL	\$ 8,000	

2.3 MBNEP Portable Informational Display

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$5,000
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti
MBNEP Designated Reviewer:	Citizens Advisory Committee

The portable informational display will be one of the vehicles by which the MBNEP will educate and inform the public about the Program. It will be designed for use by staff and trained volunteers at trade shows, fairs, festivals, meetings, and other venues where the public will gather and demonstrate the goals and purposes of the Program.

The display will utilize the other public participation products -- brochure, poster, fact sheets, newsletters, etc. -- to provide the public with information. The display will be designed to accommodate change in content as the Program develops and will be portable and relatively easy to transport and set-up. The display will be designed and produced through the guidance of a CAC subcommittee, and under the overall direction of the Program's Outreach and Education Coordinator.

Specific Project Objectives:

- 1) Review options used by other agencies or companies in setting up portable displays.
- 2) Purchase portable display and supporting materials (e.g., shipping crate, lights, photographs, placards, etc.).
- 3) Work with Management Conference to gather photos, charts, brochures, and other products for use on permanent display.

Project Deliverables / Schedule:

Complete Portable Display.....09/30/97

Project Budget:

Federal (EPA):	\$ 3,750	
State/Local:	<u>\$ 1,250</u>	(FSCC inkind)
TOTAL	\$ 5,000	

2.4 MBNEP Fact Sheets

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$0
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti / Lisa Mills
MBNEP Designated Reviewer:	Citizens Advisory Committee / Technical Advisory Committee

Fact sheets will be produced to augment public awareness and understanding of certain priority issues and the MBNEP program goals. They will provide a more detailed explanation of issues concerning the Mobile Bay estuarine system and the MBNEP than can be provided by the brochure or the newsletter.

Four (4) to six (6) fact sheets will be written and distributed during the Program's first year and will cover such topics as "What is an Estuary?", Definitions Used in Environmental Activities, "A, B, Cs", Water Quality, Habitat Loss, and Living Marine Resources. Fact sheets will likely include a small map indicating the scope of the study area and a brief, one paragraph explanation of the MBNEP for readers who may not have seen other MBNEP materials.

The fact sheets will be designed and produced through the guidance of both the CAC and TAC, under the direction of the Program's Public Outreach and Education and Scientific/Technical Coordinators. Approximately 2,000 of each will be printed and distributed through a variety of means.

Specific Project Objectives:

- 1) Develop a standard format for fact sheets.
- 2) Develop a list of potential topics.
- 3) Solicit and/or write copy for fact sheets.
- 4) Distribute facts sheets through the newsletter, speakers bureau, mail, and portable display.
- 5) Publish and distribute brochure.

Project Deliverables / Schedule:

Copies of Completed Fact Sheets.....as available

Project Budget:

Federal (EPA):	\$ 0
State/Local:	<u>\$ 0</u>
TOTAL	\$ 0

2.5 MBNEP Public Participation Strategy

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$0
Priority Issues:	All
MBNEP Coordinator:	Lee Yokel / Danny Calametti
MBNEP Designated Reviewer:	Citizens Advisory Committee

In order to sustain the valuable resources of the Mobile Bay estuary, the MBNEP community must achieve a balance between consumptive uses, modifications, preservation and conservation. A key to establishing this balance is an educated citizenry that is willing to support, promote, and actively participate in measures to protect the Mobile Bay estuarine system, and collectively act as wise stewards of a shared public resource. Achieving this goal will require an extensive outreach and education effort that is aimed at day audiences as well as the general public.

Appendix B of "A Primer for Establishing and Managing Estuary Projects" provides guidance on how to establish and manage a Public Participation Program designed to involve members of the public in the development of a CCMP. The goal of public participation in the NEP is to achieve public consensus on priority problems for an estuary, and solutions and action strategies for implementation. This public consensus forms the foundation for the strong public support required to accomplish the actions agreed upon in the CCMP. A key component of the MBNEP Public Participation Program, to be drafted by December 1996, will be the involvement of the public in the activities of the MBNEP and the development of the CCMP, and the development of educational components in conjunction with action agendas. Components will include publication of a MBNEP newsletter, workshops, fact sheets, posters, brochures, and special events.

Specific Project Objectives:

- 1) Collect sample Public Participation Strategies from other NEPs.
- 2) Draft a MBNEP Public Participation Strategy.
- 3) Develop and reach Management Conference consensus on the Strategy.

Project Deliverables / Schedule:

Draft Public Participation Strategy.....	12/31/96
Review and Begin Finalizing Strategy.....	09/01/97

Project Budget:

Federal (EPA):	\$ 0
State/Local:	<u>\$ 0</u>
TOTAL	\$ 0

2.6 MBNEP Speakers Bureau

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$0
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti
MBNEP Designated Reviewer:	Citizens Advisory Committee

The speakers bureau will perform the vital function of bringing the message of the MBNEP to various audiences throughout the study area. Volunteers will be trained to effectively use the various products of the Public Participation Program (brochure, poster, fact sheets, etc.) To explain the purpose of the Program and to teach the public about the estuary system. They will also act as the eyes and ears of the Program by conveying public concerns to the CAC, TAC, and the Management Committee..

Specific Project Objectives:

- 1) Identify constituency groups to contact for possible speaking engagements.
- 2) Recruit volunteers from the Management Conference; identify other volunteers who are interested in the MBNEP.
- 3) Develop and conduct speakers training sessions for volunteers; develop and prepare script(s) for use by participating speakers.
- 4) Contact constituency groups and provide speakers for groups as needed.

Project Deliverables / Schedule:

List of Target Groups.....	03/01/97
Recruit Volunteers.....	07/01/97
Develop Training Sessions.....	09/30/97

Project Budget:

Federal (EPA):	\$ 0
State/Local:	<u>\$ 0</u>
TOTAL	\$ 0

2.7 MBNEP Issue Workshops

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$0
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti / Lisa Mills
MBNEP Designated Reviewer:	Citizens Advisory Committee / Technical Advisory Committee

A series of issue workshops will be hosted jointly the CAC and TAC to facilitate the development of action items related to the preliminary priority issues. The meetings will be open to the general public and include an educational component as well as status reports on relative first year workplan items. The MBNEP staff will facilitate and along with members of the CAC and TAC work to recruit additional attendees from underrepresented interest groups.

Work items and areas of additional concern will be presented to the CAC and TAC for consideration. The need for additional workshops to further investigate specific issues will be evaluated and pursued by the MBNEP staff as appropriate.

Specific Project Objectives:

- 1) Establish work groups based on preliminary priority issues and select CAC and TAC Co-chairs.
- 2) Coordinate monthly meetings and facilitate communication with the Management Conference.
- 3) Plan and implement additional workshops as needed.

Project Deliverables / Schedule:

Recommend Subgroups and Schedule Initial Meetings.....	02/01/97
Submit Reports and Proposed Work Items.....	09/01/97
Continue Development of CCMP Action Items.....	Ongoing

Project Budget:

Federal (EPA):	\$ 0
State/Local:	<u>\$ 0</u>
TOTAL	\$ 0

2.8 MBNEP Workshops

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$4,000
Priority Issues:	All
MBNEP Coordinator:	Danny Calametti / Lisa Mills
MBNEP Designated Reviewer:	Citizens Advisory Committee / Technical Advisory Committee

During the course of the first year workplan, it is expected that a number of issues will arise calling for the development of specific workshops / forums. These events will be needed to educate targeted audiences about the processes to be employed during development of the CCMP and/or about broader issues other than specific priority issues.

The workshops / forums will also be designed to effectively seek input from the community and incorporate the results in continued efforts of the Management Conference. Topics may include Water Quality Modeling, Wetlands, Soil Conservation and Erosion Control, Community Leaders Forum, and others. The MBNEP will seek co-sponsors in order to expand the level of expertise relative to a particular subject, collaborate with other organizations sharing common missions, and share expenses.

Specific Project Objectives:

- 1) Work with subcommittee co-chairs and other Management Conference members to identify workshop topics and possible partners.
- 2) Develop schedule and implement.
- 3) Report results and recommend action items to the Management Conference.

Project Deliverables / Schedule:

Identify Workshops and Develop Implementation Plans.....	on-going
Report Results.....	09/30/97

Project Budget:

Federal (EPA):	\$ 3000
State/Local:	<u>\$ 1000</u>
TOTAL	\$ 4000

2.9 MBNEP Action Plan Demonstration Projects

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$12,000
Priority Issues:	All
MBNEP Coordinator:	MBNEP Program Office
MBNEP Designated Reviewer:	Citizens Advisory Committee / Technical Advisory Committee

Requests for proposals for beneficial CCMP development related activities with wide public exposure will be solicited from individuals or groups in the community. Funds will be appropriated for Mobile Bay related projects for the purpose of heightening awareness of the estuary and translating public concerns into meaningful actions.

Proposals will be received and evaluated by the MBNEP staff, reviewed by a TAC subcommittee as appropriate and approved by the CAC. The MBNEP staff will develop the eligibility criteria and assist applicants with addressing relevant criteria as needed.

Specific Project Objectives:

- 1) Establish selection criteria utilizing EPA guidance, dated October 21, 1992, on the eligibility of public involvement and education projects for National Estuary Program (NEP) funding.
- 2) Solicit requests for proposals.
- 3) Select APDP and coordinate implementation.
- 4) Report status and results to Management Conference.

Project Deliverables / Schedule:

Establish Selection Criteria.....	03/31/97
Identify Initial Projects to be Funded.....	04/30/97
Recommend Additional Year One Projects.....	06/30/97
Final Report to Management Conference.....	09/30/97

Project Budget:

Federal (EPA):	\$ 6,000	
State/Local:	<u>\$ 6,000</u>	(provided by local interests)
TOTAL	\$12,000	

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3.0 Program Administration

With over 200 Management Conference members actively engaged in various committee activities, program staff must be prepared to handle a substantial communications and logistics responsibility. Lessons learned from other National Estuary Programs has shown that the administrative responsibilities of Program staff are often underestimated, and that as a result the Management Conference may suffer in terms of clear direction and productivity. The first year workplan is designed to ensure that adequate staff support is available to the Management Conference, while allowing for an optimum balance of remaining program funds to be used for contracting services to accomplish the workplan goals and schedule. A total of four (4) program staff will be used during the first year of CCMP development to meet this goal. Additional capital investments will be made to meet essential Program Office functions.

3.1 Administrative Support for the Management Conference

Performing Organization:	MBNEP Program Office
Principal Investigator:	N/A
Total Funding:	\$161,525.00
Priority Issues:	All
MBNEP Coordinator:	Susan Ivester Rees
MBNEP Designated Reviewer:	N/A

The MBNEP Program Office works closely with all of the MBNEP Management Conference committees; and answers directly to the Policy Committee (Figure 1). Task 3.1 will provide resources for the Program Office to continue program planning, implementation, evaluation, and reporting. Staff will provide organizational and logistical support for all of the Management Conference committee meetings, and coordinate / communicate as necessary with appropriate groups, including user groups, state and Federal agencies, and professional groups relevant to CCMP development and implementation. Staff will: 1) prepare following year work plans and budgets; 2) prepare annual EPA Cooperative Agreement grant applications; 3) administer grants/contracts; 4) amend the Cooperative Agreement workplan as necessary; 5) monitor projects including coordination of workplans, progress reports, and draft / final reports with principal investigators; 6) coordinate project workplans and activities with other local, state, and Federal agencies; and, 7) provide for overall Program coordination.

Program staff will participate in regional, state, and national conferences and meetings relevant to estuarine management. EPA has stipulated that \$10,000 of program funds be specially earmarked for travel related to outreach and technology and information transfer. A member of the CAC will attend a Tier V Citizens Advisory Committee Training Session in Fall 1996 and the Program Director and member of the TAC will attend the Association of National Estuary Programs workshop scheduled for the Spring of 1997. The remaining portion of the funds will be utilized as earmarked. The additional \$5,000 in travel funds will be used for travel associated with routing program administration, coordination with EPA Region 4, the Gulf of Mexico Program, and other Federal, state and local agencies.

In addition to the above, each of the four (4) Program staff will be assigned particular duties and responsibilities, including (but not limited to) the following:

Program Director: Responsible for ensuring completion of the commitments set forth in the MBNEP Management Conference Agreement. Provides staff support for each committee and subcommittee of the Management Conference, and coordinated activities to ensure successful and timely completion of scheduled deliverables identified in the annual workplan. Responsible for the financial planning of the Program. Serves as point of contact for media and other external inquiries, and provides liaison between the MBNEP Management Conference and other National Estuary Programs for the exchange of information relevant to the development of an effective CCMP.

Public Outreach and Education Coordinator: Coordinates and supervises the development of MBNEP outreach and education programs. Performs key tasks related to educating the public and

building consensus among the Mobile Bay community. Translates information pertaining to the MBNEP into lay terminology, and prepares printed and electronic media educational materials to be used in public outreach efforts. Works closely with the Program Director to coordinate and support Management Conference committee meetings and any other business. Initiates contact and educates interest groups on the MBNEP.

Scientific/Technical Coordinator: Coordinates and supervises the development of MBNEP scientific and research programs. Performs key tasks related to the development of action items required for CCMP development and building consensus among the Mobile Bay community. Works closely with the Program Director to coordinate and support Management Conference committee meetings and any other business. Initiates contact with area professionals and professional organizations involved in estuarine management.

Professional Secretary: Works closely with the Program Director and Staff. Conducts general secretarial and receptionist duties. Responsible for general office management. Provides staff and logistical support to Management Conference committees and subcommittees, and is responsible for the accurate preparation of meeting minutes and other reporting requirements as a result of such meetings. Assists in the development and quality control of work standards.

Project Deliverables / Schedule:

Program Quarterly Reports.....	quarterly
Program Final Report.....	08/31/97
Management Conference Meeting Minutes.....	as available
Updates to Management Conference Directory.....	as available

Project Budget:

Federal (EPA):	\$ 121,144
State/Local:	<u>\$ 40,381</u>
 TOTAL	 \$ 161,525