

IMPLEMENTING THE PLAN

POST-CCMP MANAGEMENT STRUCTURE

- OBJECTIVES**
- S-1 Continue the management conference.*
 - S-2 Review conference membership to ensure adequate participation from implementers.*
 - S-3 Establish a program office.*
 - S-4 Facilitate watershed-based planning and implementation.*
 - S-5 Encourage non-profit organizations to fund estuary protection efforts.*

OBJECTIVE S-1 *Continue the management conference*

The New York-New Jersey Harbor Estuary Program Management Conference was convened by the USEPA Administrator to develop a Comprehensive Conservation and Management Plan. With the completion of the Plan, HEP is the ideal entity to take on responsibility for:

- tracking, monitoring, and reporting on program implementation and effectiveness;
- seeking commitments for the implementation of plan recommendations;
- gaining new information through monitoring, modeling, and research;
- modifying the Plan, as appropriate; and
- seeking and advocating adequate funding for plan implementation.

HEP recently agreed on a long-term management structure, incorporating the work of the Dredged Material Management Forum into HEP. This structure is shown in Figure 17.

HEP recommends that, upon approval of the CCMP, the USEPA Administrator extend the Management Conference for a minimum of five

years to oversee implementation. Core activities include maintaining full time state coordinators, maintaining a public outreach and education program, continuing the successful mini-grants program, and funding administrative support and other essential items such as printing, peer review, and progress reporting.

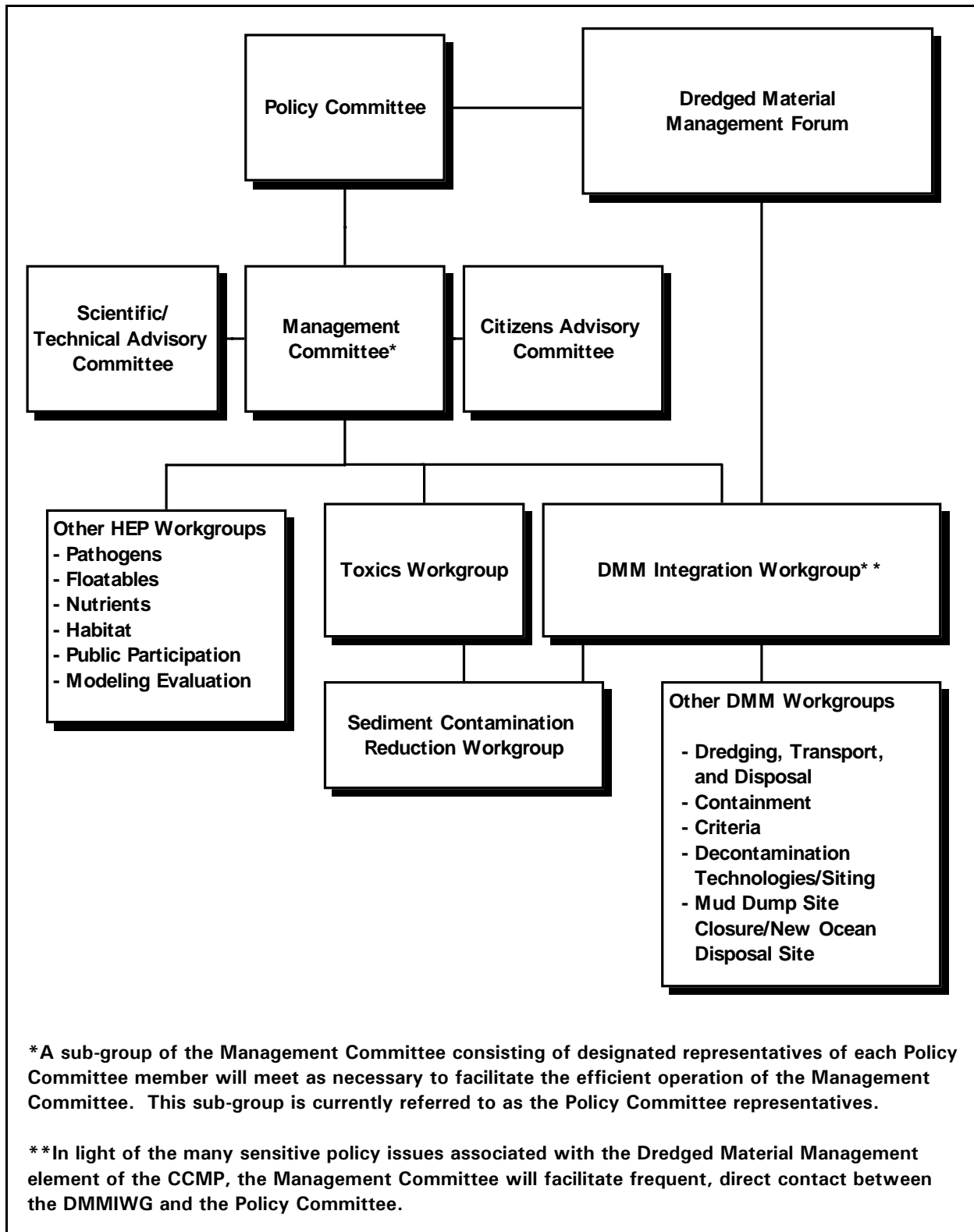
Management Conference Implementation Meetings

The committees of the Management Conference will meet as necessary to oversee CCMP implementation. Consistent with the committee roles and responsibilities described in CCMP Appendix 2:

- The Management Committee will plan to meet quarterly, as appropriate, to review progress and identify issues requiring resolution.
- The Policy Committee will meet, as necessary, to resolve issues and provide program direction.
- HEP and the Dredged Material Management work groups will meet, as necessary, to fulfill their responsibilities to implement and oversee actions within their purview.

Note that HEP will formally report to the public on progress and update the CCMP on an annual basis (see Objective I-1 below).

Figure 17. Long-term HEP Management Structure (incorporating the work of the Dredged Material Management Forum)



OBJECTIVE S-2 Review conference membership to ensure adequate participation from implementers

The CCMP identifies a wide range of entities, both public and private, to implement specific actions. Some actions already have firm commitments for implementation; others are still at the HEP recommendation stage. As we move from plan development to plan implementation, it is essential that those entities, identified with implementation responsibilities, and not currently represented on the Management Conference, be appropriately involved.

HEP will review Conference membership to identify those entities with implementation responsibility that are not adequately represented on the Management Conference and solicit their participation.

OBJECTIVE S-3 Establish a program office

In order to reinforce the separate identity of the HEP Management Conference and ensure continuing staff support for the Management Conference, HEP, acting through its member agencies, will establish a New York/New Jersey Harbor Estuary Program Office. There are two options currently being considered by the Management Conference to provide space for the HEP Program Office. The first alternative is to solicit proposals from entities willing and able to provide space and support services at no cost to the Management Conference. The second alternative is for USEPA to provide space and support services for the HEP Program Office in its Region II Office.

At a minimum, staffing will be provided by a full-time USEPA Project Officer. The primary duty station for the state coordinators will be their respective state offices. However, they will be located at the Program Office as necessary. To the extent that additional resources are available, public outreach, data management, and other support staff may also be housed in the Program Office.

OBJECTIVE S-4 Facilitate watershed-based planning and implementation

Since the geographic scope of the Harbor/Bight system is enormous, we should develop and implement programs at the lowest appropriate level.

- HEP will review other state, regional, and local plans, and identify specific recommendations to support them.
- HEP will identify the need for additional watershed-based plans and seek appropriate local sponsors.

OBJECTIVE S-5 Encourage non-profit organizations to fund estuary protection efforts

HEP will encourage existing non-profit organizations to fund appropriate recommended CCMP actions (see Action C-2.5 below). This action is one part of HEP's funding strategy for program enhancements and project implementation (see Objective C-2 below).

Table 33(ic). Enhanced Program Costs for Post-CCMP Management Structure

ACTION	COMMITMENTS		RECOMMENDATIONS	
	Cost	Cost/Year	Cost	Cost/Year
OBJECTIVE S-1: Continue the minimum core program of the HEP Management Conference including:		\$ 300,000 *		\$ 390,000 *
-- Provide full time state coordinators.		(\$ 360,000) *		
-- Maintain base public outreach and education program.		(\$ 200,000) *		
-- Continue mini-grant program.		(80,000) *		
-- Provide administrative and other essential support.		(\$ 50,000) *		
TOTAL		\$ 300,000 *		\$ 390,000 *

* The minimum core program has been estimated to cost \$690,000/yr. Individual tasks are shown in parentheses. HEP currently has a commitment for only \$300,000/yr. If the shortfall between estimated costs and available funds is not eliminated, HEP will identify reductions to the minimum core program to comply with available funding.

Table 34(is). Summary—Post-CCMP Management Structure

OBJECTIVE	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
OBJECTIVE S-1: Continue the Management Conference for a minimum of five years to oversee implementation.	USEPA	Jul 1996	\$300,000/yr +	C/N
-- Provide full time state coordinators.	HEP	Jul 1996	\$390,000/yr +	R
-- Maintain public outreach and education program.			(\$360,000/yr) +	
-- Continue mini-grant program.			(\$200,000) +	
-- Provide administrative and other essential support.			(\$80,000) +	
-- Meet as necessary to oversee progress in CCMP implementation.	HEP Management Committee, Policy Committee, work groups, other committees	Post-CCMP	(\$50,000) + Base program	C/N
OBJECTIVE S-2: Review Conference membership to identify those entities with implementation responsibility that are not adequately represented on the Management Conference and solicit their participation.	HEP	Apr 1996	Base program	C/N

Note: It is HEP's goal that all the recommendations in the CCMP become commitments.

-- In some cases CCMP actions are recommendations, not commitments, because responsible entities require resources to implement the action. HEP will advocate making these resources available.

-- In other cases, CCMP actions are recommendations because HEP has not obtained the commitment of regulated entities and other responsible entities to implement the action. By issuance of this CCMP, HEP seeks the commitment of the responsible entities and requests that they step forward to voluntarily agree to implement the actions.

¹ Responsible entities may accomplish the actions directly or via contract or grant.

² C/O - An ongoing commitment, not driven by the HEP CCMP

C/N - A new commitment, driven by the HEP CCMP

R - Recommendation

+ The minimum core program has been estimated to cost \$690,000/yr. Individual tasks are shown in parentheses. HEP currently has a commitment for only \$300,000/yr. If the shortfall between estimated costs and available funding is not eliminated, HEP will identify reductions to the minimum core program to comply with available funding.

(Continued)
Table 34(is). Summary—Post-CCMP Management Structure

OBJECTIVE	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
OBJECTIVE S-3: Establish a New York/New Jersey Harbor Estuary Program Office.	HEP	Jul 1996	Covered by S-1	C/N
-- Provide HEP office director and support services.	USEPA	Jul 1996	\$115,000/yr	C/N
OBJECTIVE S-4: Facilitate watershed-based planning and implementation.	HEP	Ongoing	Base program	C/N
OBJECTIVE S-5: Encourage non-profit organizations to fund estuary protection efforts (see Action C-2.5 below).				

¹ Responsible entities may accomplish the actions directly or via contract or grant.

² C/O - An ongoing commitment, not driven by the HEP CCMP

C/N - A new commitment, driven by the HEP CCMP

R - Recommendation

MONITORING, MODELING, AND RESEARCH STRATEGY

- OBJECTIVE M-1** *Prepare synthesis report.*
M-2 *Conduct workshops on monitoring, modeling, and research needs.*
M-3 *Seek commitments for implementation.*
M-4 *Develop and implement long-term data management strategy.*

Each of the preceding sections of the CCMP identifies monitoring, modeling, and/or research needs. Using this information, HEP sponsored a workshop in August 1995 which resulted in the development of HEP's Environmental Monitoring Plan (EMP) (see Appendix 5). The EMP identifies a comprehensive set of environmental measurements (indicators) which HEP would use to evaluate the success of CCMP implementation:

- to determine whether implementation has resulted in actual environmental improvements; and
- to provide information to help redirect and refocus the CCMP during implementation.

The EMP identifies where existing monitoring programs and special research and modeling programs address HEP's needs, and recommends program enhancements where HEP's needs are not met.

The EMP also includes an evaluation of data management options which HEP will use to develop a long-term data management strategy (see Action M-4.2 below). One key part of the data management options evaluation is a conceptual model of long-term data management, describing how various options relate and how they could be implemented in a step-wise fashion.

HEP will continue work to refine, update, and seek commitments to implement the EMP (see below). HEP will also integrate the EMP into an overall monitoring, modeling, and research strategy, including developing additional research and modeling needs, and the long-term data management strategy. HEP will seek

commitments for implementation of the overall strategy. The following actions are the steps in developing the strategy. For more specific information, see Appendix 5.

OBJECTIVE M-1 *Prepare synthesis report*

HEP has summarized ongoing monitoring, modeling, and research efforts, and needs. This information is incorporated in the EMP.

ACTION M-1.1

Development of Summary Tables

HEP, working through STAC, has developed tables which summarize the needs identified in each of the technical sections of the CCMP.

ACTION M-1.2

Identification of Ongoing Monitoring Efforts

On behalf of HEP, ISC has prepared a report which identifies ongoing monitoring efforts.

OBJECTIVE M-2 *Conduct workshops on monitoring, modeling, and research needs*

ACTION M-2.1

Workshop on Monitoring, Modeling, and Research Needs

HEP, working through STAC, held a workshop involving appropriate scientists and managers to formulate a monitoring, modeling, and research

plan (i.e., Environmental Monitoring Plan) to address the identified needs (see Appendix 5). At the workshop, data management options were developed, including a conceptual model for data management.

ACTION M-2.2

Additional Issue-Specific Workshops

HEP, working through STAC and other sponsors, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, CAC, and others, will convene additional issue-specific workshops, to recommend refinements to the EMP.

ACTION M-2.3

Development of Final Environmental Monitoring Plan

HEP, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, STAC, CAC, and others, will develop the final EMP.

OBJECTIVE M-3 *Seek commitments for implementation*

ACTION M-3.1

Resource Commitments

HEP will seek commitments from Management Conference members, both governmental and non-governmental, to implement the final EMP, including developing and implementing a long-term data management strategy.

- HEP, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, STAC, CAC, and others, will form a monitoring/data management work group to oversee implementation of the EMP and HEP data management strategy.

ACTION M-3.2

Implementation of the Plan

USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, other agencies, and other sponsors to be identified should implement recommendations in the final EMP.

OBJECTIVE M-4 *Develop and implement long-term data management strategy*

Data management is an important component of a monitoring strategy and plan. HEP and LISS have jointly hired a data management coordinator. HEP is seeking commitments from agencies and institutions to help implement HEP's EMP, including data management.

ACTION M-4.1

Entering Key Data Sets into Data Management System

The data management coordinator is entering, and facilitating the entry of, key data sets into USEPA's Ocean Data Evaluation System (ODES).

This action is intended to archive key data sets in a manner to facilitate future use. The data management system should provide:

- Rigorous documentation of data set contents and QA/QC procedures; and
- Easy downloading of data.

The data management coordinator is currently entering key data sets into ODES. Upon completion of data entry, the data management coordinator will prepare a report documenting the data sets entered, including a description of the data sets, costs to enter the data sets, and an evaluation of additional data sets to be considered for entry into ODES, including costs.

ACTION M-4.2

Long-term Data Management Needs

HEP has defined its long-term data management needs:

- Support reporting on the progress of CCMP implementation (see Objective I-1 below).
- Provide for storage, retrieval, editing, and QA/QC of HEP/NYBRP and other relevant environmental data, including physical, chemical, and biological types.

- Fully integrate with LISS for data relevant to system-wide analyses.
- Provide access to these data to USEPA, states, other agencies, and investigators.
- Provide appropriate tools to users including a data entry package, statistical package, GIS interface, and STORET interface.
- Provide a full description of data sets including QA/QC information.
- Provide collections of relevant reference materials at accessible locations (i.e., existing libraries at the Hudson River Foundation and Liberty State Park).
- Conduct all activities at low cost and with adequate degree of user friendliness.

HEP's workshop on monitoring, modeling, and research (Action M-2.1) included a data management session to address these needs. The data management coordinator used information developed at the workshop to review and evaluate long-term data management options, and prepared a report for HEP's consideration. Among the options considered in the report are:

- Development of a meta-database, including such features as HEP program information, a comprehensive data source index for the Estuary and Bight, an on-line forum, etc., and Internet access.
- Development of a comprehensive data management system for the Estuary and Bight.
- Establishment of one or more coordinated regional information management and data resource centers.
- Establishment of a data management/monitoring coordinator for the HEP and LISS.

These options are not mutually exclusive. A conceptual data management model describes the relationships among the options, and how they could be implemented.

HEP, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, STAC, CAC, and others, will use the information in the report to recommend a long-term data management strategy, considering feasibility and costs. HEP will work to encourage the sharing of environmental data and information on the Harbor/Bight among agencies and institutions generating the data and data users.

ACTION M-4.3

Implementation of Long-term Data Management Strategy

HEP, USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, other agencies, and other sponsors to be identified, in coordination with LISS, should implement recommendations in the long-term data management strategy.

COSTS OF IMPLEMENTING THIS PLAN

Many of the commitments and recommendations in the Monitoring, Modeling, and Research Strategy can be accomplished through the effective use of base program resources.

The Monitoring, Modeling, and Research component of the CCMP itemizes 8 new HEP-driven commitments and 3 recommendations. Four of the new commitments rely on base programs and represent a major commitment to HEP implementation. Eight of the new commitments and recommendations are associated with enhanced program funding. As shown in Table 35(ic) below:

- ◆ The Plan includes 4 commitments, which total \$90,000, for program enhancements.
- ◆ The Plan also includes 3 recommendations for program enhancements for which the cost estimate will be developed during the continuing planning process.

Table 35(ic). Enhanced Program Costs for Monitoring, Modeling, and Research Strategy

ACTION	COMMITMENTS		RECOMMENDATIONS	
	Cost	Cost/Year	Cost	Cost/Year
ACTION M-2.1: Sponsor workshop to develop Environmental Monitoring Plan.	\$20,000			
ACTION M-2.2: Sponsor issue-specific workshops on monitoring, modeling, and research needs.	\$20,000			
ACTION M-3.2: Implement the Environmental Monitoring Plan.				To be determined based on M-2.3 and M-3.1 *
ACTION M-4.1: Enter key data sets into data management system.	\$40,000			
ACTION M-4.2: Recommend a long-term data management strategy.	\$10,000			
ACTION M-4.3: Implement a long-term data management strategy.				To be determined based on M-4.2 *
TOTAL	\$90,000 + ¹			*

* Enhanced program costs to be developed as part of the continuing planning process.

¹ Notation (+ *) indicates cost plus additional costs to be determined.

Table 36(is). Summary—Monitoring, Modeling, and Research Strategy

ACTION	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
OBJECTIVE M-1: Prepare synthesis report.				
ACTION M-1.1: Develop tables which summarize needs identified in each of the technical sections of the CCMP.	HEP, working through STAC	Completed	Cost included in Action M-2.1	C/N
ACTION M-1.2: Identify ongoing monitoring efforts.	ISC	Completed	Base program	C/N
OBJECTIVE M-2: Conduct workshops on monitoring, modeling, and research needs.				
ACTION M-2.1: Sponsor a workshop to develop Environmental Monitoring Plan.	HEP, working through STAC	Completed	\$20,000	C/N
ACTION M-2.2: Convene additional issue-specific workshops to recommend refinements to the EMP.	HEP, working through STAC and other sponsors, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, CAC, and others	Apr 1996	\$20,000	C/N
ACTION M-2.3: Develop the final EMP.	HEP, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, STAC, CAC, and others	Jul 1996	Base program	C/N

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¹ Responsible entities may accomplish the actions directly or via contract or grant. R - Recommendation

² C/O - An ongoing commitment, not driven by the HEP CCMP
C/N - A new commitment, driven by the HEP CCMP

(Continued)
Table 36(is). Summary – Monitoring, Modeling, and Research Strategy

ACTION	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
OBJECTIVE M-3: Seek commitments for implementation.				
ACTION M-3.1: Seek commitments to implement the EMP.	HEP	Ongoing	Base program	C/N
-- Form a monitoring/data management work group.	HEP, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, STAC, CAC, and others	Mar 1996	Base program	C/N
ACTION M-3.2: Implement the EMP.	USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, other agencies, and other sponsors to be identified	Post-CCMP	To be determined based on M-2.3 and M-3.1	R
OBJECTIVE M-4: Develop and implement long-term data management strategy.				
ACTION M-4.1: Enter key data sets into data management system.	HEP	Feb 1996	\$40,000	C/N
ACTION M-4.2: Recommend a long-term data management strategy.	HEP, with the full participation of USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, STAC, CAC, and others	Sep 1996	Base program	C/N
-- Develop data management options report and incorporate into HEP's Environmental Monitoring Plan.	HEP	Completed	\$10,000	C/N

¹ Responsible entities may accomplish the actions directly or via contract or grant. C/N - A new commitment, driven by the HEP CCMP
R - Recommendation

² C/O - An ongoing commitment, not driven by the HEP CCMP

(Continued)
Table 36(is). Summary – Monitoring, Modeling, and Research Strategy

ACTION	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
ACTION M-4.3: Implement long-term data management strategy.	HEP, USEPA, USACE, NYSDEC, NJDEP, NYCDEP, ISC, other agencies, and other sponsors to be identified, in coordination with LISS	Post-CCMP	To be determined based on M-4.2	R

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C/N - A new commitment, driven by the HEP CCMP
R - Recommendation

REPORTING ON PROGRESS IN IMPLEMENTING THE PLAN

Reporting the status of CCMP implementation, and environmental indicators of the success of

OBJECTIVE I-1 *Prepare reports on the status of CCMP implementation.*

redirecting effort as needed, is crucial to successful implementation of the Plan. HEP has recommended continuation of the Management Conference primarily for this purpose.

There are two types of measures of CCMP implementation:

Outputs -- reviews to determine whether CCMP commitments have been met; and

Outcomes -- reviews of progress using appropriate environmental indicators to determine whether the Harbor/Bight is responding as expected to pollution controls, and whether unanticipated environmental problems are emerging.

The CCMP provides a framework for tracking outputs and outcomes:

- **Outputs:** Each action in the CCMP identifies what is to be done, by when, and by whom. As explained below, HEP will review these commitments and recommend mid-course corrections as needed. The Finance Plan and Implementation Strategy (Appendix 4) provides details of how this will be done.
- **Outcomes:** The Environmental Monitoring Plan (Appendix 5) includes recommendations to periodically measure and report on a number of

CCMP implementation. These indicators will tell us whether our goals and objectives are being met. The most important indicators are those which involve measuring the ambient environment to assess whether beneficial uses are being restored and whether the ecosystem is healthier and more productive as a result of actions taken. Other indicators involve measuring continuing loadings of pollutants to the ambient environment.

ACTION I-1.1

Annual Report

HEP will prepare an annual report on the status and effectiveness of CCMP implementation, focusing on outputs. The annual report will include commitments for redirection of efforts as needed. Commitments for redirection of efforts will be subject to public review.

ACTION I-1.2

Biennial Report

On a biennial basis, HEP will augment the progress report noted in Action I-1.1 to include a full account of the status and effectiveness of CCMP implementation, measured by the environmental outcomes being tracked through implementation of HEP's Environmental Monitoring Plan. As in the annual progress report, the biennial report will include commitments for redirection of efforts as needed; these will be subject to public review.

Table 37(is). Summary—Reporting on Progress in Implementing the Plan

OBJECTIVE	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
ACTION I-1.1: Prepare annual report on the status and effectiveness of CCMP implementation, including commitments for redirection of efforts as needed; include public review.	HEP	First report Dec 1996 and annually thereafter	Included in extension of HEP management conference (Objective S-1)	C/N
ACTION I-1.2 Augment the above report to include a full account of the status and effectiveness of CCMP implementation as measured by the environmental outcomes being tracked through HEP's Environmental Monitoring Plan.	HEP	First report Dec 1997 and biennially thereafter	Included in extension of HEP Management Conference (Objective S-1)	C/N

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² C/O - An ongoing commitment, not driven by the HEP CCMP

C/N - A new commitment, driven by the HEP CCMP
R - Recommendation

COSTS AND FINANCING

- OBJECTIVE C-1** *Continue to fund federal, state, and local programs, at a minimum, at current levels.*
- C-2** *Seek additional funds for project implementation and program enhancements.*

The cost of ongoing and proposed Harbor/Bight actions will be significant. This section breaks the costs of implementing the Plan into three categories: 1) base programs, 2) enhanced programs, and 3) projects, such as sewage treatment plant upgrades and land acquisition.

This section also presents an overview of the HEP plan for financing. A detailed Financial Plan and Implementation Strategy is presented in Appendix 4. Funding to cover the costs of restoration and protection efforts must be provided by federal, state, and local governments, and by the private sector, in partnership. The ability to achieve HEP goals and objectives, and the pace at which progress is made, will clearly be a function of the availability of funding.

Base Program Costs

The CCMP includes numerous commitments on the part of NYSDEC, NJDEP, USEPA, other state and federal agencies, local governments, and other implementing entities to continue and enhance the implementation of ongoing programs. These commitments assume that base programs continue to be funded, at a minimum, at current levels.

OBJECTIVE C-1 *Continue to fund federal, state, and local programs, at a minimum, at current levels*

ACTION C-1.0

Funding Environmental Programs at Current Levels
HEP recommends that the federal, state, and local governments continue to fund agency programs at current levels.

NYSDEC and NJDEP are committed to more actions, by far, than any other agencies. Therefore, it is particularly important to continue base program funding for these two agencies, at a minimum, at current levels.

OBJECTIVE C-2 *Seek additional funds for project implementation and program enhancements*

Many actions in the CCMP are recommendations. Implementation of these actions is crucial to achieve HEP's goals and will require resources beyond those currently identified. HEP's strategy to seek additional funding is described below.

ACTION C-2.1

Clean Water Act Reauthorization

To fund project implementation and program enhancements, HEP recommends that the Clean Water Act be reauthorized and that grants to the states to help capitalize their State Revolving Fund programs be continued.

ACTION C-2.2

Establishment of Finance Work Group

HEP, in cooperation with USEPA, NYSDEC, and NJDEP, will establish a finance work group to formulate specific recommendations on funding CCMP implementation, including coordinating HEP's strategy to seek additional funding for recommended actions.

ACTION C-2.3

Financial Plan and Implementation Strategy

HEP has formulated a detailed Financial Plan and Implementation Strategy (see Appendix 4), consistent with authorized federal funding levels, to meet the total cost for CCMP implementation. HEP, in cooperation with USEPA, NYSDEC, and NJDEP, will continue to develop and update this plan based on updates of the CCMP and any changes in funding sources. The financial plan includes a specific focus on the ability of local governments to pay for required improvements. The states are committed to providing technical assistance to local governments in this effort. The plan also includes an implementation strategy that describes how HEP will assure CCMP commitments are being met.

ACTION C-2.4

Funding Under Statutes Other Than Clean Water Act

To fund project implementation, HEP, in cooperation with USEPA, NYSDEC, and NJDEP, will also recommend the funding of specific projects using special legislative authorizations and appropriations under non-CWA statutes such as the Water Resources Development Act.

ACTION C-2.5

Encouraging Non-profit Organizations to Fund Estuary Protection Efforts

Funding for proposed program enhancement actions need not always be provided by

government agencies. There are many individuals and corporations that are interested in making contributions to implement these types of actions. Non-profit organizations (NPOs) under Section 501(c)(3) of the Internal Revenue Code are ideally suited to receive such contributions and disburse funds, for purposes furthering their missions as well as HEP's.

The missions of many NPOs overlap with those of HEP and these organizations are actively engaged in estuary protection efforts. HEP will encourage NPOs to fund appropriate CCMP recommended actions. To accomplish this, HEP will:

- Identify those CCMP recommended actions which may be appropriate for funding by NPOs. For example, research studies, environmental monitoring, and educational programs, particularly those that can be accomplished by non-governmental entities, may be appropriate; whereas continuing federal and state environmental programs are not.
- Identify existing NPOs with missions that overlap HEP's.
- Seek expressions of interest from the NPOs to work in partnership with HEP to identify those actions they can help implement.
- Work with the interested NPOs to develop a coordinated, bi-state strategy to further mutual goals, including:
 - Soliciting private sector funds.
 - Funding appropriate CCMP actions.
 - Including NPO activities in CCMP updates.
- One approach that is encouraged is establishment of separate funds within existing NPOs.

ACTION C-2.6

Supplemental Environmental Project Funds for Priority Recommendations

USEPA and NYSDEC will seek opportunities, as appropriate, to apply Supplemental Environmental Project (SEP) funds to HEP recommendations.

The State of New Jersey and ISC will seek opportunities to fund the recommendations

identified in the CCMP from appropriate funding sources that currently exist or may arise in the future. Funding such actions by the State of New Jersey can only proceed in accordance with statutory and contractual obligations of the state. Funding such actions by ISC can only proceed in accordance with ISC's legal mandates and contractual obligations.

ACTION C-2.7

Additional Public Sector Funding for Program Enhancements

HEP encourages agencies to step forward to fund program enhancements recommended in the CCMP, as funding becomes available. HEP will actively seek such funding. To facilitate this, HEP will develop a list which matches CCMP recommendations with the missions and authorities of various government agencies.

ACTION C-2.8

USACE Enforcement Actions

In directing actions for violation remediation, USACE will seek opportunities to the maximum extent practicable to implement recommendations of the CCMP.

Table 38(is) below summarizes 11 new commitments and 3 recommendations pertaining to this component of the Plan. Thirteen of these actions can be accomplished using existing base program resources.

Table 38(is). Summary – Costs and Financing

ACTION	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
OBJECTIVE C-1: Continue to fund federal, state, and local programs, at a minimum, at current levels.				
ACTION C-1.0: Fund federal, state, and local environmental programs at current levels.	Federal, state, local governments	Post-CCMP	Base program	R
OBJECTIVE C-2: Seek additional funds for project implementation and program enhancements.				
ACTION C-2.1: Reauthorize Clean Water Act.	Federal government	By Dec 31, 1996	Base program	R
ACTION C-2.2: Establish Finance Work Group.	HEP, USEPA, NYSDEC, NJDEP	Mar 1996	Base program	C/N
ACTION C-2.3: Formulate detailed financial plan and implementation strategy.	HEP, USEPA, NYSDEC, NJDEP	Completed	Base program	C/N
-- Update this plan based on CCMP updates and changes in funding sources.	HEP, USEPA, NYSDEC, NJDEP	Annually, as necessary	Base program	C/N
ACTION C-2.4: Seek funds under statutes other than CWA.	HEP, USEPA, NYSDEC, NJDEP	Ongoing	Base program	C/N
ACTION C-2.5: Encourage non-profit organizations (NPOs) to fund estuary protection efforts.				
-- Seek expressions of interest from existing §501(c)(3) NPOs to work with HEP to identify CCMP recommendations they can help implement.	HEP, USEPA, NYSDEC, NJDEP	Jul 1996	Base program	C/N

Note: It is HEP's goal that all the recommendations in the CCMP become commitments.

-- In some cases CCMP actions are recommendations, not commitments, because responsible entities require resources to implement the action. HEP will advocate making these resources available. -- In other cases, CCMP actions are recommendations because HEP has not obtained the commitment of regulated entities and other responsible entities to implement the action. By issuance of this CCMP, HEP seeks the commitment of the responsible entities and requests that they step forward to voluntarily agree to implement the actions.

¹ Responsible entities may accomplish the actions directly or via contract or grant.

² C/O - An ongoing commitment, not driven by the HEP CCMP

C/N - A new commitment, driven by the HEP CCMP

R - Recommendation

(Continued)
Table 38(is). Summary—Costs and Financing

ACTION	RESPONSIBLE ENTITY ¹	TARGET DATE	ESTIMATED COST	STATUS ²
-- Develop a coordinated bi-state funding strategy.	HEP & interested NPOs	Dec. 1996	Base program	C/N*
-- Implement funding strategy and fund appropriate CCMP recommendations.	Interested NPOs, HEP (coordination)	Beginning Dec 1996	Enhanced program cost to be determined by NPOs	R
ACTION C-2.6: Seek opportunities, as appropriate, to apply supplemental environmental project funds to HEP recommendations.	USEPA, NYSDEC, other agencies	Post-CCMP	Base program	C/N
-- Seek opportunities to fund the recommendations identified in the CCMP from appropriate funding sources that currently exist or may arise in the future, in accordance with legal and contractual obligations.	NJDEP & ISC	Post-CCMP	Base program	C/N
ACTION C-2.7: Seek additional public sector funding for recommended program enhancements.	HEP, USEPA, NYSDEC, NJDEP	Ongoing	Base program	C/N
-- Develop a list matching CCMP recommendations with the missions and authorities of various agencies.	HEP & NJDEP	Jul 1996	Base program	C/N
ACTION C-2.8: In directing actions for violation remediation, seek opportunities to the maximum extent practicable to implement recommendations of the CCMP.	USACE	Post-CCMP	Base program	C/N

¹ Responsible entities may accomplish the actions directly or via contract or grant.

² C/O - An ongoing commitment, not driven by the HEP CCMP

C/N - A new commitment, driven by the HEP CCMP

R - Recommendation

Summary of Total Enhanced Program and Project Implementation Costs for the CCMP

The CCMP includes commitments and recommendations for enhancements to base programs which entail additional funding. Some of these actions have firm commitments for enhanced program resources. Other actions are recommendations. In some cases, CCMP actions are recommendations because the responsible entities require resources to implement the action. HEP will advocate making these resources available. In other instances, CCMP actions are recommendations because HEP has not obtained the commitments(s) of the regulated entities or responsible entities to implement the action.

While the proposed CCMP was undergoing public review, there was a concurrent review by the entities that have implementation responsibilities. This resulted in the confirmation of many commitments, and the addition of numerous commitments to the Plan, and turning some recommendations into commitments. Through the continuing planning process, HEP will work with these entities to confirm commitments to the actions specified in this document and, to the extent possible, to turn recommendations into commitments. In preparing the final CCMP, many estimated costs and target dates for the completion of commitments and recommendations were refined by the HEP Management Conference. HEP will continue to refine this information. Note that cost estimates have been made for two types of costs: One-time costs, e.g., for special studies or construction of facilities; and costs recurring on an annual basis (cost per year), e.g., for continuing environmental programs or operation and maintenance of facilities. These two types of costs are tallied separately.

As summarized in Table 39(ic) below:

- ◆ The Plan includes commitments for enhanced program funding totaling \$36,466,000 and for \$2,130,000/year.
- ◆ The Plan includes recommendations for enhanced program funding totaling \$3,989,000 and for \$4,045,000/year.
- ◆ The Plan includes numerous additional commitments and recommendations for program enhancements for which costs will be developed during the continuing planning process.

The CCMP also includes commitments and recommendations for the implementation of specific pollution control and habitat restoration projects. As summarized in Table 40(ic) below:

- ◆ The Plan includes commitments for projects totaling between \$1.28 and \$5.28 billion and for \$100,000/year.
- ◆ The Plan includes recommendations for additional projects totaling \$1.3 billion and \$3,500,000/year.
- ◆ The Plan includes numerous additional commitments and recommendations for projects for which costs will be developed during the continuing planning process.

Table 39(is). Summary of Enhanced Program Costs

CCMP SECTION	COMMITMENTS		RECOMMENDATIONS	
	Cost	Cost/Year	Cost	Cost/Year
Habitat	\$6.995 million	0	\$1.074 million + *	\$550,000
Toxics	\$4.531 million	\$80,000	\$1.915 million + *	\$1.75 million
Dredged Material	\$14.4 million + *	0	0	0
Pathogens	\$282,000	0	\$325,000 + *	\$15,000
Floatables	0	\$1.750 million	\$200,000	\$1.349 million
Nutrients	\$9.975 million	0	%325,000 + *	0
Rainfall/Induced Discharges	\$168,000	0	0	0
Public Involvement and Education	\$25,000	**	\$150,000 + *	***
Post-CCMP Management Structure	0	\$300,000	0	\$390,000
Monitoring, Modeling, and Research	\$90,000 + *	0	0	0
Reporting Progress	0	**	0	0
Financing	0	0	0	0
TOTAL	\$36,466,000 + ¹	\$2,130,000/yr	\$3,989,000 + ¹	\$4,054,000/yr + ¹

* Total does not include additional enhanced program costs for actions to be developed during the continuing planning process
 ** Included in \$300,000/yr commitment for post-CCMP management structure
 *** Included in \$390,000/yr recommendation for post-CCMP management structure
 1 Notation (+ *) indicates cost plus additional costs to be determined.

Table 40(is). Summary of Project Implementation Costs

CCMP SECTION	COMMITMENTS		RECOMMENDATIONS	
	Cost	Cost/Year	Cost	Cost/Year
Habitat	\$15.6 million + *	0	\$500,000 + *	\$1 million
Toxics	\$30,000 + **	0	0	0
Dredged Material	\$126.730 million + *	0	0	0
Pathogens	\$1.7 million **	0	0	0
Floatables	\$7.4 million	0	0	\$2.5 million
Nutrients	\$132.5 million	0	0	0
Rainfall/Induced Discharges	\$1-5 billion	\$100,000	\$1.3 billion + *	0
Public Involvement and Education	0	0	0	0
Post-CCMP Management Structure	0	0	0	0
Monitoring, Modeling, and Research	0	0	0	0
Reporting Progress	0	0	0	0
Financing	0	0	0	0
TOTAL	\$1,283,960,000 to \$5,283,960,000 + *	\$100,000/yr	\$1,300,500,000 + *	\$3,500,000/yr

* Total does not include additional project implementation costs for actions to be developed during the continuing planning process
 ** Total represents statewide funding.
 1 Notation (+ *) indicates cost plus additional costs to be determined.

