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Forwarded to CWI by
Mark McKeivitt
Water Resources Planner
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**AGREEMENT
AMONG THE UNITED STATES OF AMERICA
AND
THE SPONSORS
OF THE ANACOSTIA RIVER BASIN
FEASIBILITY STUDY**

12/91 " (410) 962-2650
Current 6/13/94

THIS AGREEMENT, entered into this 9th day, of December, 1991, by and among the United States of America (hereinafter called the "Government"), represented by the Contracting Officer executing this Agreement, and the District of Columbia, Prince George's County, Maryland, Montgomery County, Maryland, the Interstate Commission on the Potomac River Basin, the Metropolitan Washington Council of Governments and the State of Maryland, Department of Natural Resources (hereinafter called the "Sponsors").

WITNESSETH, that

WHEREAS, the Resolution of the Committee on Public Works and Transportation, U.S. House of Representatives dated September 8, 1988 authorized the Corps of Engineers to conduct a study of the Anacostia River and Tributaries, District of Columbia and Maryland; and

WHEREAS, the Corps of Engineers has conducted a reconnaissance study of further improvements for flood control, navigation, erosion, sedimentation, water quality, and other related water resources needs pursuant to this authority, and has determined that further study in the nature of a "Feasibility Phase Study" (hereinafter called the "Study") is required to fulfill the intent of the study authority and to complete the extent of the Federal interest in fish and wildlife habitat restoration measures along the Anacostia River and tributaries located in the District of Columbia and Maryland; and

WHEREAS, fish and wildlife habitat restoration projects consisting of measures undertaken to return fish and wildlife habitat resources to a modern historic condition are cost shared 75 percent Federal and 25 percent non-Federal; and

WHEREAS, the Sponsors have the authority and capability to furnish the co-operation hereinafter set forth and are willing to participate in study cost-sharing and financing in accordance with the terms of this agreement; and

WHEREAS, the Sponsors and the Government all understand that entering into this agreement in no way obligates the Sponsors or the Government to implement a project and that whether a project is supported for authorization and budgeted for implementation depends upon the outcome of this feasibility study and whether the proposed solution is consistent with the Principles and Guidelines and with the budget priorities of the Administration and that at the present time, favorable budget priority is being assigned to projects providing commercial navigation, flood or storm damage reduction outputs and restoration of fish and wildlife habitat; and

WHEREAS, the Water Resources Development Act of 1986 (P. L. 99-662) specifies the cost sharing requirements applicable to the study;

NOW THEREFORE, the parties agree as follows:

ARTICLE I - DEFINITIONS

For the purpose of this Agreement:

a. The term "Study Cost" shall mean all disbursements by the Government pursuant to this Agreement, whether from Federal appropriations or from funds made available to the Government by the Sponsors, and all Negotiated Costs of work performed by the Sponsors pursuant to this agreement. Such costs shall include, but not be limited to: labor charges; direct costs; overhead expenses; supervision and administration costs; and contracts with third parties, including termination or suspension charges; and any termination or suspension costs (ordinarily defined as those costs necessary to terminate ongoing contracts or obligations and to properly safeguard the work already accomplished) associated with this Agreement.

b. The term "Study Period" shall mean the time period for conducting the Study, commencing with the issuance of initial Federal feasibility funds following the execution of this Agreement, and ending when the final report is submitted to the Office of Management and Budget (OMB) by the Assistant Secretary of the Army for Civil Works (ASA(CW)) for review of consistency with the policies and programs of the President.

c. The term "Negotiated Cost" is the fixed fee for a work item to be accomplished by the sponsors as in-kind services as specified in the Initial Project Management Plan (IPMP) incorporated herein and which is acceptable to both parties.

ARTICLE II - OBLIGATIONS OF PARTIES

a. The Sponsors and the Government, using funds contributed by the Sponsors and appropriated by the Congress, shall expeditiously prosecute and complete the Study, currently estimated to be completed in 42 months from the date of this Agreement, substantially in compliance with Article III herein and in conformity with applicable Federal laws and regulations, the Economic and Environmental Principles and Guidelines for Water Related Land Resources Implementation Studies, and mutually acceptable standards of engineering practice.

b. The Government and the Sponsors shall contribute in cash, and in-kind services, fifty (50) percent of all Study Costs, which total cost is currently estimated to be \$ 2,450,000 as specified in Article IV herein; provided, that the Sponsors may, consistent with applicable Federal statutes and regulations, contribute up to 25 percent of the Study Costs as in-kind services; provided further, the Government shall not obligate any cash contribution by the Sponsors toward Study Costs until such cash contribution has actually been made available to it by the Sponsors.

c. No Federal funds may be used to meet the local sponsors' share of study costs under this Agreement unless the expenditure of such funds is expressly authorized by statute as verified by the granting agency.

d. The award of any contract with a third party for services in furtherance of this Agreement which obligates Federal appropriations shall be exclusively within the control of the Government. The award of any contract by the Sponsors with a third party for services in furtherance of this Agreement which obligates funds of the Sponsors and does not obligate Federal appropriations shall be exclusively within the control of the Sponsors, but shall be subject to applicable Federal statutes and regulations.

e. The Government and the Sponsors shall each endeavor to assign the necessary resources to provide for the prompt and proper execution of the Study and shall, within the

limits of law and regulation, conduct the study with maximum flexibility as directed by the Executive Committee established by Article V. herein.

f. The Government will not continue with the Study if it determines that there is no solution in which there is a Federal interest or which is not in accord with current policies and budget priorities unless the Sponsors wish to continue under the terms of this Agreement and the Department of Army grants an exception. If a study is discontinued, it shall be concluded according to Article XII and all data and information shall be made available to both parties.

g. The Sponsor(s) may wish to conclude the Study if it determines that there is no solution in which it has an interest or which is not in accord with its current policies and budget priorities. When such a case exists the study shall be concluded according to Article XII and all data and information shall be made available to all parties.

ARTICLE III - INITIAL PROJECT MANAGEMENT PLAN

The Initial Project Management Plan (IPMP) includes all of the work tasks identified for cost sharing between the Government and the Sponsors in the Anacostia River basin. Each political jurisdiction is responsible only for those work efforts within its own jurisdiction, along with a portion of the overall study tasks.

Appendix A including Attachment I (the IPMP), is hereby incorporated into this Agreement. The parties to this Agreement shall substantially comply with the IPMP in prosecuting work on the Study. The following modifications, to be approved by the Executive Committee, shall refer to only those overall study tasks designated in the IPMP and shall require an amendment to this Agreement:

- a. any modification which increases the total Study Costs by more than 5 percent;
- b. any modification in the estimated cost of a Study work item or any obligation for a Study work item, which changes the total cost of that work item by more than 10 percent;
- c. any extension of the completion schedule for a Study work item of more than thirty 30 days; or
- d. any reassignment of work items between the Sponsors and the Government.
- e. any modification to the cost and schedule of the work effort within a specific jurisdiction will be approved by the Government and the Sponsor representing that jurisdiction in accordance with the percentage and time guidelines noted above.
- f. any projects or construction activities which are identified through this study will be evaluated to determine if they are eligible for implementation through existing Corps of Engineers authorities such as Section 1135 of the Water Resources Development Act of 1986 (P.L. 99-662)

ARTICLE IV - METHOD OF PAYMENT

a. The Government shall endeavor to obtain during each fiscal year the appropriation for that fiscal year at least in the amounts specified in the IPMP incorporated herein. Subject to the enactment of Federal appropriations and the allotment of funds to the Contracting Officer, the Government shall then fund the Study at least in the amounts specified in the IPMP herein. Partial payment will be requested on a quarterly basis.

b. Each of the Sponsors shall endeavor to obtain during each Government fiscal year the cash contribution for that Government fiscal year at least in the amounts specified in the IPMP incorporated herein and, once it has obtained funds for a cash contribution, shall make such funds available to the Government. The Government shall withdraw and disburse funds made available by the Sponsors subject to the provisions of this Agreement.

c. Funds made available by the Sponsors to the Government and not disbursed by the Government within a Government fiscal year shall be carried over and applied to the cash contribution for the succeeding Government fiscal year; provided, that upon study termination any excess cash contribution shall be reimbursed to the Sponsors after a final accounting, subject to the availability of appropriations, as specified in Article XII herein.

d. Should any party fail to obtain funds sufficient to make obligations or cash contributions or to incur Study Costs in accordance with the schedule included in the IPMP incorporated herein, it shall at once notify the Executive Committee established under Article V herein. The Executive Committee shall determine if the Agreement should be amended, suspended, or terminated under Article XII herein.

ARTICLE V - MANAGEMENT AND COORDINATION

a. Overall study management shall be the responsibility of an Executive Committee consisting of the District Engineer, Baltimore District; Chief, Planning Division, Baltimore District; Director, Department of Environmental Protection, Montgomery County; Director, Department of Environmental Resources, Prince George's County; Director, Department of Public Works; and Director, Department of Consumer and Regulatory Affairs, District of Columbia; Secretary, Department of Natural Resources, State of Maryland; Executive Director, Interstate Commission on the Potomac River Basin; and Executive Director, Metropolitan Washington Council of Governments.

b. To provide for consistent and effective communication and prosecution of the items in the IPMP, the Anacostia Watershed Restoration Committee shall work closely with the Study Management Team.

c. The Study Management Team and their designated appointees will coordinate on all matters relating to prosecution of the Study and compliance with this Agreement, including cost estimates, schedules, execution of work elements, financial transactions and recommendations to the Executive Committee for termination, suspension, or amendment of this Agreement.

d. The Study Management Team will prepare periodic reports on the progress of all work items as required by the Executive Committee.

ARTICLE VI - DISPUTES

a. The Study Management Team shall endeavor in good faith to negotiate the resolution of conflicts. Any dispute arising under this Agreement which is not disposed of by mutual consent shall be referred to the Executive Committee. The Executive Committee shall resolve such conflicts or determine a mutually agreeable process for reaching resolution or for termination under Article XII herein.

b. Pending final decision of a dispute hereunder, or pending suspension or termination of this Agreement under Article XII herein, the parties hereto shall proceed diligently with the performance of this Agreement.

ARTICLE VII - MAINTENANCE OF RECORDS

The Government and the Sponsors shall keep books, records, documents and other evidence pertaining to study costs and expenses incurred pursuant to this Agreement to the extent and in such detail as will properly reflect total Study costs. The Government and the Sponsors shall maintain such books, records, documents and other evidence for inspection and audit by authorized representatives of the parties to this Agreement. Such material shall remain available for review for a period of three (3) years following the termination of this Agreement.

ARTICLE VIII - RELATIONSHIP OF PARTIES

- a. The parties to this Agreement act in an independent capacity in the performance of their respective functions under this Agreement, and no party is to be considered the officer, agent or employee of the other.
- b. To the extent permitted by applicable law, any reports, documents, data, findings, conclusions, or recommendations pertaining to the Study shall not be released outside the Executive Committee or the Study Management Team; nor shall they be represented as presenting the views of either party unless the Parties shall indicate agreement thereto in writing.

ARTICLE IX - OFFICIALS NOT TO BENEFIT

No member of or delegate to the Congress, or other elected officials, shall be admitted to any share or part of this Agreement, or to any benefit that may arise therefrom.

ARTICLE X - FEDERAL AND STATE LAWS

In acting under its rights and obligations hereunder, the local sponsors agrees to comply with all applicable Federal and state laws and regulations, including section 601 of Title VI of the Civil Rights Act of 1964 (Public Law 88-352) and Department of Defense Directive 5500.II issued pursuant thereto and published in Part 300 of Title 32, Code of Federal Regulations, as well as Army Regulation 600-7, entitled "Nondiscrimination on the Basis of Handicap in Programs and Activities Assisted or Conducted by the Department of the Army."

ARTICLE XI - COVENANT AGAINST CONTINGENT FEES

The local sponsors warrant that no person or selling agency has been employed or retained to solicit or secure this Agreement upon agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the local sponsor for the purpose of securing business. For breach or violation of this warranty, the Government shall have the right to annul this Agreement without liability, or, in its discretion, to add to the Agreement or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

ARTICLE XII - TERMINATION OR SUSPENSION

- a. This Agreement shall terminate at the completion of the Study Period; provided, that prior to such time and upon thirty (30) days written notice, any party may terminate or suspend its participation under this Agreement without penalty.

REVISION NOTED:

5 of 49


ICPRB
MWCOG
District of Columbia
Corps of Engineers


Prince George's County

Montgomery County

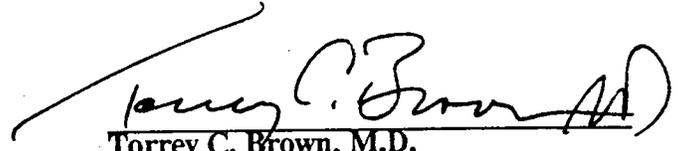
State of Maryland

b. Within ninety (90) days upon termination of this Agreement the Study Management Team shall prepare a final accounting of Study Costs, which shall display disbursements by the Government of Federal funds and cash contributions by the Sponsors and credits for the Negotiated Costs of the Sponsors. Subject to the availability of funds, within thirty (30) days thereafter the Government shall reimburse the Sponsors for the excess, if any, of cash contributions and credits given over fifty (50) percent of total Study Costs. Within thirty (30) days thereafter, the Sponsors shall provide the Government any cash contributions required so that the total Sponsors share equals fifty (50) percent of total Study Costs.

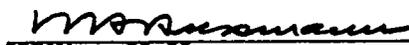
IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.



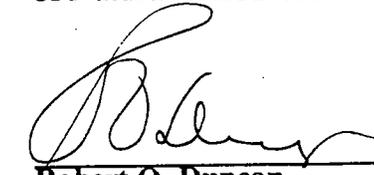
John P. Bond III
City Administrator
District of Columbia



Torrey C. Brown, M.D.
Secretary, Maryland Department
of Natural Resources



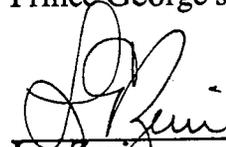
William H. Hussman
Chief Administrative Officer
Montgomery County, Maryland



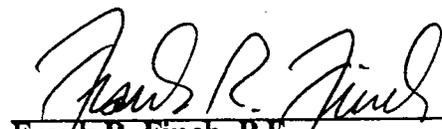
Robert O. Duncan
Deputy Chief Administrator
Prince George's County, Maryland



Ruth R. Crone
Executive Director
Metropolitan Washington Council
of Governments



Lee Zeni
Executive Director
Interstate Commission on the
Potomac River Basin



Frank R. Finch, P.E.
Colonel, Corps of Engineers
District Engineer
Contracting Officer

APPENDIX A: INITIAL PROJECT MANAGEMENT PLAN
APPENDIX B: SCHEDULE

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31 U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.



John P. Bond III
City Administrator
District of Columbia



Torrey C. Brown, M.D.
Secretary, Maryland Department
of Natural Resources



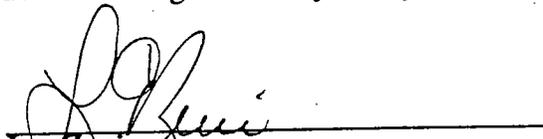
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APPENDIX A
FEASIBILITY STUDY COST SHARING AGREEMENT
ANACOSTIA RIVER AND TRIBUTARIES
DISTRICT OF COLUMBIA AND MARYLAND

INITIAL PROJECT MANAGEMENT PLAN

1. Study Area: The Anacostia River drains a relatively small but highly urbanized basin in the District of Columbia, and Prince George's and Montgomery Counties, Maryland. The environmental integrity of much of the Anacostia River and its tributaries has been severely degraded by urbanization and previous construction of Federal works to meet flood control and navigation needs. However, portions of the upper reaches of some of the tributaries are relatively undisturbed and contain unique environmental reaches for this watershed.

The Corps of Engineers involvement in the basin dates back more than 115 years and includes projects and programs for navigation, flood control, debris removal and aquatic vegetation control. Two major projects were undertaken. From 1902 through 1940, the District of Columbia portion of the river was channelized, seawalls were built, Kingman Lake was constructed and more than 1000 acres of mudflats and wetlands were filled with dredged material. The primary purpose of this work was to provide a park for the eastern portion of the city. From 1952 to 1959, a flood control project was constructed in Prince George's County, Maryland along the Northeast and Northwest Branches and the Anacostia River. Twenty-eight thousand feet of levees and fourteen thousand feet of channels were constructed to solve critical flood problems. This was successful; however, that construction resulted in further loss of wetlands and fish and wildlife habitat.

During the reconnaissance study, measures were identified that would restore fish and wildlife habitat that was lost as a result of the previous construction of Corps of Engineers works. A basinwide plan was identified that could restore wetlands and other important fish and wildlife habitat. The purpose of the feasibility phase is to conduct necessary studies to determine the feasibility of recommending to Congress the construction of the fish and wildlife restoration projects.

2. Study Alternatives: The results of the reconnaissance study support additional Federal (Corps) involvement in detailed studies of fish and wildlife habitat restoration measures along the Anacostia River and tributaries. Some of the plan features include the restoration and creation of wetlands through measures such as new plantings and alteration of subwatershed hydrology as needed; restoration of aquatic habitat including streambank stabilization, check dams and other measures to restore streams for aquatic life; the elimination of in-stream barriers to seasonal migrations of anadromous fish; selected plantings of trees and shrubs along Corps projects to restore wildlife habitat, and the modification of stream channels to restore in-stream fisheries habitat. The fish and wildlife habitat restoration concepts contained in the reconnaissance report have been approved by Corps higher authority, and the Baltimore District has been authorized to conduct a cost shared feasibility study with the non-Federal sponsors.

3. Local Sponsorship: The six non-Federal sponsors are the District of Columbia, Prince George's and Montgomery Counties in Maryland, the State of Maryland, the Interstate

Commission on the Potomac River Basin and the Metropolitan Washington Council of Governments.

4. Scope of Work: The work to be performed consists of a feasibility level of effort according to the attached schedules and budgets to determine the best solution to restore fish and wildlife habitat to the Anacostia River basin. The environmental restoration plan will be identified as well as any other locally preferred alternative. This work includes the development and evaluation of plans identified in the reconnaissance study as well as those additional areas identified during the FCSA negotiations. Works tasks identified include surveying, mapping, computer simulations of hydraulic and hydrologic regimes, geotechnical investigations, design drawings, real estate evaluations, preparation of an environmental impact statement (EIS) or a finding of no significant impact (FONSI), study management, report preparation and coordination with local, state and Federal agencies and the public. The Feasibility Report will include an Engineering Appendix in accordance with EC 1110-2-265, Engineering and Design for Civil Works Projects.

5. Study Milestone Schedule: The Baltimore District is responsible for the following actions:

Date	Milestone	Action
Dec 91	-	Execute Feasibility Study Cost Sharing Agreement (FCSA)
Jan 92	-	Begin Feasibility Study
Feb 92	P3	Study Initiation Meeting
Mar 92	-	Technical Resolution Conference
Mar 93	-	Technical Resolution Conference
May 93	P4	Formulation Analysis Submittal
Jun 93	P5	Formulation Analysis Approval
Jan 94	P6	Submit Draft Feasibility Report and Preliminary Draft Environmental Impact Statement
Apr 94	-	Feasibility Phase Issue Resolution Conference (FRC)
Jul 94	P7	Division Approval of Draft Feasibility Report
Nov 94	P8	Submit Final Feasibility Report and Draft Final Environmental Impact Statement
Dec 94	P9	Division Commander's Notice

Jan 95	-	Begin Washington Level Review
Jun 95	-	Complete Washington Level Review

6. In-Kind Services: For accounting and administrative purposes, all tasks including in-kind services provided by the Sponsors are categorized by cost subaccount. Acceptance of the product of in-kind services will be at the purview of the Corps. Following is a listing of each subaccount along with a summary description. Additional in-kind service task descriptions are contained in Attachment I.

01 - Coordination and Public Involvement

Tasks include coordination with the District of Columbia, Montgomery and Prince George's Counties, MWCOG, ICPRB, State of Maryland and other interested Federal agencies regarding the cost, schedule and conduct of the study. Coordination is accomplished through meetings, correspondence and telephone conversations among the interested parties. The public involvement segment of the study will include the development of appropriate mailing lists for the distribution of newsletters, public notices, and other materials. The above materials will be prepared as a means of informing all interested parties regarding the study. Public involvement activities such as those mentioned above are to be performed as an in-kind service by ICPRB. The Corps will be responsible for providing responses to Congressional inquiries on the study to include correspondence and briefings as needed. Representatives Norton, Morella and Hoyer, and Senators Sarbanes and Mikulski are to be advised on study findings and progress with information provided in advance of general public announcements. The Corps will serve as the specific point of contact with other Federal Agencies for the purpose of keeping interested parties informed as to study progress. Close coordination will be maintained by the Corps of Engineers with the National Park Service and the other Federal agencies with interests in the basin.

02 - Implementation Studies

The required financing plan and statement of financial capability will be provided as an in-kind service by the non-Federal sponsors. An assessment of the sponsors' plans and statements will be made by the Corps and incorporated in the final report following coordination with each jurisdiction.

03 - Demographic Studies

The existing sociological, economic and demographic conditions for the Anacostia River basin will be documented for the final report. The majority of the information has already been developed in various forms. Information should reflect the results of the 1990 census. The "with" and "without" project conditions will be defined and documented. The "without" condition should reflect those habitat restoration projects most likely to be constructed and other actions that may be taken in the absence of a Federal project with emphasis to be placed on retrofit actions and other activities of the AWRC.

04 - Cultural Resources Studies (Phase I)

Cultural resources studies will consist of a review of existing literature, site visits and analysis of the potential for occurrence of significant cultural resources at all of the areas where activities will occur. The "Finding of Effect" will be coordinated with the State Historic Preservation Officers for the District of Columbia and the State of Maryland.

05 - Environmental Studies

The environmental studies include all efforts required to coordinate and develop the required NEPA documentation to include the necessary public notices. Work includes the preparation on an environmental document that would address all alternatives and final recommendations for those projects identified for construction in the basin. Work includes the preparation and coordination of a Section 404(b)(1) evaluation. A limited analysis will be conducted to confirm the habitat related impacts of previous Federal project construction in the District of Columbia and Prince George's County to define wetlands and habitat lost. A detailed assessment of the significance of the losses will be made giving consideration to local, regional and national needs, and public, scientific and institutional viewpoints. An appropriate methodology will be utilized to accomplish the requirement for quantitative and qualitative evaluation of the fish and wildlife benefits which will result from project construction such that incremental analysis can be performed. "Fish and Wildlife Restoration" includes the development and design of restoration projects to increase habitat by means of wetland creation, modifications to migratory fish barriers, development of in-stream fisheries habitat and establishment of suitable riparian vegetation. Additional environmental efforts will focus on selection of appropriate vegetation for wetland plantings to maximize wildlife habitat, development of flow and gradient criteria for modification to migratory fish barriers and selection of alternative species for riparian plantings. Hazardous and Toxic Waste (HTW) investigations will be in accordance with Corps of Engineers guidance. All of the above work to be coordinated with the appropriate in-house and other local, state and Federal agencies.

06 - Fish and Wildlife Studies

Includes an updating of the baseline and the "future without" project conditions of natural resources in the study area, participation in the development of alternatives and an evaluation of the impacts of the proposed project. All work to be conducted under an interagency agreement by the Annapolis Office, US Fish and Wildlife Service (FWS) in accordance with the Fish and Wildlife Coordination Act. FWS will submit a report which is fully coordinated with the State of Maryland, District of Columbia and the National Marine Fisheries Service.

07 - Economic Studies

Conduct those economic studies necessary to identify and substantiate the benefits associated with the restoration projects. The alternative projects to be considered will include wetland creation, modifications to migratory fish barriers, development of in-stream fisheries habitat and establishment of riparian vegetation. It is expected that a range of each of the alternatives will be evaluated through incremental analysis in order to determine the most cost effective means of providing the desired restoration outputs. Detailed analysis of the monetary benefits provided by the restoration projects will not be conducted. Benefits will be expressed in non-monetary outputs, e.g., habitat units. Costs

will be expressed in monetary terms. Using available data, water quality, recreation and other incidental benefits will be defined and documented in the final report. An overall assessment of planned development on the project alternatives will be made. In the event hydrology and hydraulic studies indicate a change in the present level of flood protection at the Federal projects, flood damage analyses will be made to determine changes in average annual damages/benefits.

08 - Surveys and Mapping

Most surveys and mapping would be obtained through contracts. The surveying tasks include 50 cross sections at 100' to 200' intervals throughout the entire flood control project. The contractor will also survey eight bridges, establish five miles of baseline and provide the data on diskettes in HEC-2 format. The surveyed cross sections will be used in the hydraulic analyses. The locations and the proposed elevations for the fish habitat features will also be surveyed. Mapping of the study area will be completed with contour intervals of one foot and a scale of 1" = 100'. A scale of 1" = 50' will be used in selected project areas. Within the District of Columbia, Kingman Lake, along with river fringe areas will be surveyed and mapped. Hydrographic surveys are included. All mapping is to be at a scale of 1" = 100' except at the closure areas and planting sites where the scale will be 1" = 50'. Coordination with the previous efforts of Horn Point Environmental Laboratory will be undertaken. In Montgomery County, surveys of potential wetland and aquatic habitat restoration sites will be conducted to determine size and calculate quantities of material to be removed.

09 - Hydrologic and Hydraulic Investigations

Detailed hydrologic and hydraulic modeling will be conducted to evaluate the flood control capacity of the project under existing conditions. The design capacity of the project will also be evaluated. Once the existing conditions have been defined, an array of alternatives including riparian plantings, fish habitat features and drop structure modifications will be evaluated to determine potential effects on the flood control capacity of the project. The cumulative impacts of the array of alternatives will be determined. In the District of Columbia, hydraulic investigations will be undertaken to evaluate the upstream and downstream water control structures. Sedimentation calculations will be used to determine maintenance requirements. In Montgomery County, analyses will be undertaken to evaluate the effects of the conversion of five dry ponds to wetlands, four new pond will be sized and stream restoration areas will be evaluated.

10 - Foundations and Materials Investigations

Geotechnical investigations will be undertaken to evaluate the subsurface conditions in the proposed wetland areas. Soils will be tested to determine the extent of seepage. Six to eight test pits will be dug at each site. Percolation and gradation tests will be conducted. Levee design and foundation will also be evaluated to determine the impact of different wetland designs on the levee stability. Approximately ten drill holes will be required at each site. Drilling will be conducted in the vicinity of the closures for Kingman Lake to determine foundation conditions for closures and water control structures. Geotechnical investigations will be undertaken to evaluate modifications to existing dry ponds and foundation conditions at new fish and wildlife habitat sites in Montgomery County.

11 - Design, Quantity and Cost Estimates

Design efforts for modifications to migratory fish barriers, installation of fish habitat structures, riparian plantings and wetland creation are based on a DM level of design. Plates will be prepared for each of the selected alternatives. Materials and quantities will be developed for cost estimating purposes. A "Code of Accounts" cost estimate will be developed for all projects selected for construction.

12 - Real Estate Studies

Real estate related work includes the execution of Right of Entry Agreements and a determination of the value of real estate interests for proposed project areas. A model Local Cooperation Agreement (LCA) for construction of selected alternatives will be included in the feasibility report. The LCA is a legally binding agreement that sets forth the terms of the relationship between the Federal Government and the local sponsor for construction, operation and maintenance of projects approved through the feasibility process.

13 - Study Management

Study management includes all activities related to the identification, coordination and management of work tasks necessary to complete the feasibility study. These responsibilities include the development of a detailed study schedule for each of the study team elements and the monitoring of funds to ensure that tasks are completed on time and within budget. The study manager is responsible for conducting study team meetings to facilitate exchange of information and completed products and executive committee meetings to keep the appropriate decision makers from the Sponsors and the Baltimore District informed as to study progress. The in-kind services and cash contributions of the sponsors will be coordinated with the Federal portion of the study budget. Budget information will be prepared for the Division Engineer's testimony and coordinated with higher authority. The study manager will also prepare a Project Management Plan (PMP) in compliance with Engineering Regulation 5-7-1, discuss the model Local Cooperation Agreements and assist in the preparation of the Letter(s) of Intent.

14 - Plan Formulation

An array of alternatives will be developed and criteria selected in order to evaluate the range of options which will further the objective of replacing fish and wildlife habitat within the Anacostia basin. The alternatives will be compared for completeness, effectiveness, efficiency and acceptability. The following activities will be accomplished:

- Establish present (1991) baseline condition. A habitat evaluation method is to be used to establish the baseline at various locations being considered for restoration measures. Minimal effort is to be spent in further documentation of pre-Corps project conditions (circa 1900).
- Define fish and wildlife habitat restoration objectives for study area. Overall objectives may be set in terms of target species or communities desired in the basin; however, objectives must eventually be quantified in terms of habitat units as defined

by the habitat evaluation method adopted for use in the study. In determining modern historic fish and wildlife habitat for the Anacostia River basin, consideration should be given to establishing baseline conditions that exist at similar, less developed coastal plain basins within the region.

- Define the physical, economic and institutional constraints to be considered in developing the alternative measures.
- Identify the alternative measures or groups of measures to be considered. The location of the measures considered is not limited to the project lands of the existing Federal projects. Consideration should also be given to groups of measures that would restore a corridor or greenway of interconnected habitat as opposed to isolated measures with limited habitat output.
- Assess cost and environmental outputs of alternative measures. Costs are to be developed in sufficient detail to define each separable element of each alternative measure or group of measures. Costs will include construction costs, land acquisition and operation and maintenance. Environmental outputs will be measured in terms of habitat units using the habitat evaluation method noted above and consistent with the habitat units established as the basin objectives. Costs and outputs of plan increments will be displayed in a format similar to that shown in Appendix A, EC 1105-2-185, which allows for an incremental cost analysis of the measures under consideration. NED benefits will also be defined at the reconnaissance level and displayed.
- Select recommended plan and provide justification for selection. Justification to consider such factors as costs per habitat unit, ability of measure(s) to meet basin objectives, incidental NED benefits, implementability and other factors.

Department of the Army policy states that Fish and Wildlife restoration activities may be recommended when a Civil Works project has contributed to their degradation. Restoration actions are not limited by the boundaries of previous Civil Works activities; future restoration projects may be proposed throughout the Anacostia watershed. Fish and Wildlife restoration consists of measures undertaken to return fish and wildlife habitat resources to a modern historic condition. Restoration measures must address significant resources and be incrementally justified through analysis of monetary and non-monetary benefits.

15 - Feasibility Report Preparation

Report preparation includes the compilation of all study team products into an initial progress report, followed by a draft and a final report. The comments of the reviewers from the Corps of Engineers and the Sponsors will be addressed. The report will be submitted to higher authority for review. The review process includes the North Atlantic Division, the Office of the Chief of Engineers, the Washington Review Center and the Board of Engineers for Rivers and Harbors.

ATTACHMENT I

IN-KIND SERVICES TASKS DESCRIPTIONS

ANACOSTIA RIVER AND TRIBUTARIES FEASIBILITY STUDY

The following pages contain detailed descriptions of the tasks to be performed as in-kind services by the non-Federal Sponsors. Any applicable guidance for specific work items is specified at the appropriate locations in the detailed task descriptions, and will be provided at the beginning of work, or earlier. The general guidelines and criteria embodied in the Planning Guidance Notebook (ER 1105-2-100) shall provide overall direction for both the Government and the Sponsors in problem identification, plan formulation, impact assessment, evaluation, and report preparation during the feasibility phase.

To insure timely and responsive completion of the in-kind services, the Sponsors and the Government shall all designate a study manager whose responsibility is to conduct the feasibility study. The study managers shall establish a coordination procedure that will permit daily contact. The Sponsors' study manager shall be responsible for directing the conduct of all in-kind services and for transmitting the information to the Government at the required times. The Government's study manager shall be responsible for providing overall policy and general direction for the in-kind services, incorporating the Sponsors' work into other study elements and coordinating the in-house review of the Sponsors' work. Together, the respective study managers shall resolve any comments produced by the in-house review and shall agree on the procedure for completing the in-kind work to the satisfaction of both parties.

IN-KIND SERVICES

<u>ORGANIZATION</u>	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u> <u>(x \$1,000)</u>
ICPRB	1A	Coordination and Public Involvement	20.0
	1B	Coordination and Public Involvement	4.5
	1C	Coordination and Public Involvement	31.5
	1D	Coordination and Public Involvement	21.0
	5F(1)	Environmental Studies	5.0
	5F(2)	Environmental Studies	5.0
	5I	Environmental Studies	10.0
	5J	Environmental Studies	3.0
	5K	Environmental Studies	2.0
	13J	Study Management	12.0
	13K	Study Management	12.0
	14E	Plan Formulation	2.0
	15A	Report Preparation	3.0
			<u>131.0</u>
	MWCOG	5E	Environmental Studies
5H		Environmental Studies	4.0
13B		Study Management	12.0
13C		Study Management	9.0
13D		Study Management	6.0
13E		Study Management	9.0
			<u>90.0</u>

<u>ORGANIZATION</u>	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u> <u>(x \$1,000)</u>
MdDNR	5E	Environmental Studies	10.0
			<u>10.0</u>
DISTRICT OF COLUMBIA	2A	Implementation Studies	6.6
	3A	Demographic Studies	1.0
	3B	Demographic Studies	0.5
	3C	Demographic Studies	0.5
	3D	Demographic Studies	1.7
	5H	Environmental Studies	4.0
	13A	Study Management	1.0
	13B	Study Management	6.0
	13C	Study Management	2.0
	13D	Study Management	1.0
	13E	Study Management	1.0
	13H	Study Management	1.0
	13I	Study Management	2.0
	13M	Study Management	5.0
	13N	Study Management	1.0
	14F	Plan Formulation	1.5
	15A	Report Preparation	1.0
	15B	Report Preparation	1.0
			<u>37.8</u>

<u>ORGANIZATION</u>	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u> <u>(x \$1,000)</u>
PRINCE GEORGE'S COUNTY	2A	Implementation Studies	2.7
	3A	Demographic Studies	2.6
	5F(1)	Environmental Studies	2.8
	8C	Surveying	50.0
	11I	Design	4.5
			<u>62.6</u>
MONTGOMERY COUNTY	2A	Implementation Studies	6.6
	3A	Demographic Studies	1.0
	13A	Study Management	1.0
	13B	Study Management	6.0
	13C	Study Management	2.0
	13D	Study Management	1.0
	13E	Study Management	1.0
	13H	Study Management	1.0
	13K	Study Management	2.0
	13M	Study Management	5.0
	13N	Study Management	1.0
	14F	Plan Formulation	1.5
	15A	Report Preparation	1.0
	15B	Report Preparation	1.0
			<u>31.1</u>

**ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY RESTORATION SITES**

DISTRICT OF COLUMBIA

- | | |
|-----------------|----------|
| 1. Kingman Lake | Wetlands |
| 2. River Fringe | Wetlands |

PRINCE GEORGE'S COUNTY

- | | |
|-----------------------------|--|
| 1. Northwest Branch | Anadromous Fish Barrier
Removal |
| 2. Northwest Branch | Anadromous Fish Barrier
Removal (flow concentrator) |
| 3. Paint Branch | Anadromous Fish Barrier
Removal |
| 4. Flood Control
Project | Riparian Vegetation |
| 5. Flood Control
Project | Fisheries Habitat |
| 6. Flood Control
Project | Wetland |

MONTGOMERY COUNTY

- | | |
|------------------------|------------------|
| 1. Little Paint Branch | (LPB-12) Wetland |
| 2. Paint Branch | (PB-16) " |
| 3. Paint Branch | (PB-15) " |
| 4. Paint Branch | (PB-28) " |
| 5. Northwest Branch | (NW-26) " |
| 6. Sligo Creek | (S-5) " |
| 7. Northwest Branch | (NW-33-4) " |
| 8. Northwest Branch | (NW-8) " |
| 9. Northwest Branch | (NW-27) " |

ANACOSTIA RIVER TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 01:	Coordination and Public Involvement
TASKS:	A, B, C, and D
IN-KIND SERVICES:	\$77,000
PERFORMED BY:	ICPRB
SCHEDULE:	Months 1-42

The Interstate Commission on the Potomac River Basin (ICPRB), along with the Metropolitan Washington Council of Governments (MWCOG), shall assume partial responsibility for coordinating with State, county and local organizations and individuals throughout the 42-month study period. The primary goals of the public involvement/coordination program are: to promote understanding of the planning/design/construction process; to solicit opinions concerning impacts of fish and wildlife habitat creation and flood protection; and to keep others fully informed regarding study progress. A draft of each newsletter shall be reviewed by the Study Manager.

The Sponsors shall assist the Corps of Engineers in periodically advising other non-Federal interests of study progress and findings at key decision points. Such coordination shall include conduct of and participation in study meetings, workshops, and briefings, as well as preparation and distribution of fact sheets, newsletters, news releases, and information papers. The ICPRB shall provide through MWCOG, a central meeting location on at least 12 occasions throughout the study. All meeting arrangements will be the responsibility of MWCOG.

A short written summary documenting the coordination and public involvement activities shall be furnished to the Corps for inclusion in the feasibility report. The ICPRB shall also assist in developing a mailing list for coordination activities, by providing a list of appropriate contacts and addresses pertinent to the study. The mailing list shall be provided in Month 2 of the feasibility study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 05: Environmental Studies
TASKS: F(1) and F(2)
IN-KIND SERVICES: \$10,000
PERFORMED BY: ICPRB
SCHEDULE: Months 1-12

- F(1) ICPRB, in cooperation with Prince George's County, MWCOG and the Corps of Engineers, will assist in the development of floodway wetland alternatives. Wetland(s) shall be sized appropriately for the associated base flow of the drainage area. Alternatives will be developed for conveyance of drainage through the levee to provide water to the wetland. Wildlife habitat features will be emphasized in the design.
- F(2) ICPRB will assist in the development of a conceptual design of the drop structure modifications to facilitate the passage of migratory fish. Consultation will be undertaken with the U.S. Fish and Wildlife Service. Design considerations will include an analysis of low flows during the migration period. Minimum and maximum velocities for the migrating species will be determined through literature evaluation. A short written description of the selected design criteria will be provided in the third month of the study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 05: Environmental Studies
TASKS: I, J, K
IN-KIND SERVICES: \$15,000
PERFORMED BY: ICPRB
SCHEDULE: Month 1-18

- 5(I) MWCOG, in cooperation with ICPRB will provide assistance in the development of alternative designs for wetland sites and habitat restoration areas locate in Montgomery County.
- 5(J) All efforts will be coordinated with Engineering Division through the study manager.
- 5(K) Hazardous and toxic waste information will be considered in the development of design alternatives.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 13: Study Management
TASKS: J, K
IN-KIND SERVICES: \$24,000
PERFORMED BY: ICPRB
SCHEDULE: Months 1-42

ICPRB will provide, through MWCOG, study management assistance by serving as the central coordination point for the collective needs of the non-Federal sponsors. MWCOG will represent the non-Federal sponsors as appropriate in meetings and correspondence.

MWCOG and ICPRB will also review the Project Management Plan (PMP) and coordinate the responses of all of the study sponsors to insure coordination of construction activities with other on-going AWRC actions.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 14: Plan Formulation
TASKS: E
IN-KIND SERVICES: \$2,000
PERFORMED BY: ICPRB
SCHEDULE: Months 18-24

ICPRB will provide through arrangements with MWCOG, population data for future growth in the basin. These data will be used for for sensitivity analysis during plan formulation and evaluation. In addition, MWCOG will assist with the risk/sensitivity analysis as affected by other restoration activities within the Anacostia basin.

MWCOG shall prepare a short description the future population trends in the basin. After receipt of comments from the Corps of Engineers, the Sponsor shall prepare a final report. The Sponsor's final report will be incorporated into the final feasibility report.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 15: Report Preparation
TASKS: A
IN-KIND SERVICES: \$3,000
PERFORMED BY: ICPRB
SCHEDULE: Months 1-36

ICPRB will provide, through arrangements with MWCOG, a short description of the progress of in-kind services provided by the non-Federal sponsors during the past quarter and the activities scheduled for the next quarter. The Corps of Engineers will develop and distribute twelve progress reports to all of the study team members.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 05: Environmental Studies
TASKS: E and H
IN-KIND SERVICES: \$54,000
PERFORMED BY: MWCOG
SCHEDULE: Months 5-15

- 5(E) MWCOG, in cooperation with ICPRB and the rest of the Study Team, will assist in the determination and documentation of the environmental significance of the fish and wildlife habitat of the Anacostia basin. Significance will be determined on a local, regional, and national level. Included in the report to be submitted by MWCOG will be a description of the unique resources in the study area. MWCOG with the assistance of ICPRB will also review potential areas for fish and wildlife habitat restoration which could potentially be included in the overall project.
- 5(H) MWCOG, in cooperation with ICPRB will provide assistance in the development of alternatives for the modification of Kingman Lake. Considerations will include methods of establishing proper elevations for wetland plants, selection of appropriate plant species and utilization of existing lake sediments. MWCOG will provide coordination with on-going efforts on other National Park Service property. MWCOG will provide a listing and description of alternative plans.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 13: Study Management
TASKS: B, C, D, E
IN-KIND SERVICES: \$36,000
PERFORMED BY: MWCOG
SCHEDULE: Months 1-42

The MWCOG shall participate with the Corps of Engineers in managing study activities. Policy, general guidance, and overall study direction shall be furnished by an Executive Committee; membership is specified in the feasibility cost-sharing agreement (FSCA). The Executive Committee shall meet or confer by telephone on an as-needed basis. Non-Federal members of the Executive Committee shall participate with Corps of Engineers members in Issue Resolution Conferences, review of progress reports and recommendations prepared by the Study Management Team, decisions regarding report preparation and project recommendations and resolution of any disputes.

The Executive Committee shall be assisted by a Study Management Team consisting of staff level personnel. The Study Management Team shall coordinate on all matters relating to prosecution of the study and compliance with the FCSA, including cost estimates, schedules, work elements, financial transactions and recommendations to the Executive Committee. The Study Management Team shall meet or confer on a regular basis approximately four to six times per year.

For day-to-day management, the Sponsor and the Corps of Engineers shall each designate a study manager whose responsibility is to complete the feasibility study. The Sponsors' study managers shall be responsible for insuring the timely completion of all in-kind services and the transfer of all information to the Corps of Engineers for input to other work tasks or for inclusion in the feasibility report. The respective study managers shall also be responsible for preparing, negotiating and monitoring contracts with others.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 5:	Environmental Studies
TASKS:	E
IN-KIND SERVICES:	\$10,000
PERFORMED BY:	MdDNR
SCHEDULE:	Months 1-24

The Maryland Department of Natural Resources will assist in the environmental significance evaluation through the involvement of the Water Resources Administration, Minerals, Oil and Gas Division. A listing of potential surface mine sites in the basin which could be eliminated as sediment sources and utilized as wildlife habitat will be undertaken. MdDNR will provide a written description of surface mine reclamation activities which have been undertaken in the basin and remaining sources of sediment from surface mining and processing.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 02: Implementation Studies
TASKS: A
IN-KIND SERVICES: \$6,600
PERFORMED BY: District of Columbia
SCHEDULE: Months 18-25

The District of Columbia shall conduct the necessary financial analyses for the preparation of a Financing Plan and the Statement of Financial Capability to the extent of involvement of the District of Columbia.

The Financing Plan shall be a clear and convincing description of the Sponsor's intention to meet its financial obligations for project construction in accordance with the project funding schedule. The Financing Plan shall include a schedule of estimated Federal and non-Federal expenditures by Federal fiscal year (including Federal outlays, Sponsor's contributions, lands, easements, rights-of-way, relocations, and disposal areas (LERR&D)). The total shares displayed in the schedule should exactly reflect cost-sharing policy and agree with figures presented in the Local Cooperation Agreement (LCA). The Financing Plan shall also include a schedule of the sources and uses of non-Federal funds during and after construction by Federal fiscal year. These include outlays and income during construction (cash payments, LERR&D, associated costs, bond-related costs, funds on hand, revenues, appropriations, grants, interest, and bond proceeds) and outlays after construction (bond debt service, government repayments, operation costs, maintenance costs, and rehabilitation costs).

The Statement of Financial Capability is intended to provide evidence of the Sponsor's authority to use the identified funding sources and the Sponsor's capability to obtain remaining funds, if any. It should be signed by the appropriate empowered official(s) representing the Sponsor. The Statement of Financial Capability is Sponsor and project specific and shall be at a level of detail necessary to show such capability:

- a) where capability is clear (sufficient funds available, large revenue base, good bond rating) evidence of this is all that needs to be provided;
- b) where capability is unclear (Sponsor relies on full faith and credit to obtain remaining funds), a credit analysis demonstrating the Sponsor's credit worthiness is required;
- c) if non-guaranteed debt is used to obtain remaining funds (limited tax, particular revenue source), an analysis should be included demonstrating that projected revenues or proceeds are reasonably certain and are sufficient to cover the Sponsor's stream of costs over time;
- d) if third party contributions are to be used, comparable data (separate financing plan and statement of capability) for the third party should be included along with evidence of the third party's legal commitment to the Sponsor.

The Financing Plan and signed Statement of Financial Capability must be presented to the Baltimore District for review and assessment in the 23rd month of the study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 3:	Demographic Studies
TASKS:	A, B, C, D
IN-KIND SERVICES:	\$3,700
PERFORMED BY:	District of Columbia
SCHEDULE:	Months 17-20

The District of Columbia shall document the existing population, employment, housing, income, land use, and industrial activity characteristics of the District of Columbia portion of the identified study area. The Sponsor shall obtain the necessary reports from the local, regional, and State agencies involved. The Sponsor shall also document the projected future conditions of the study area, as forecast by the pertinent resource agencies, for a 50-year planning horizon. OBERS projections are suggested as one source of data. This task is not intended to include the development of new economic forecasts. In order to address the social impacts fully, these demographic data shall be assembled and discussed so as to portray the "with " and the "without" project conditions. The time horizon for this study is 50 years.

Establishment of the existing condition and "without federal project" condition profile for the study area will require the collection of historical and current social, demographic, and economic data. The time frame for presentation of historical data should be the 1970, 1980, 1985, and 1990 benchmark years. Beyond 1990, benchmarks will be every 10 years. Percentage changes should be shown and discussed in the documentation. Information sources should be provided with all tabular presentations and also reflected in report bibliography.

Information and discussion is to be provided for the following:

- a) general population growth (decline)
- b) migration patterns
- c) age and sex profiles
- d) total employment/unemployment and related rates
- e) employment by sector
- f) discussion of major employers in the study area
- g) discussion of growth (decline) in employment opportunities
- h) household formation
- i) percapita income and household income
- j) land use patterns and changes
- k) development plans & opportunities (res, com, recreational, et al) (federal, state, regional, local)
- l) traffic type and patterns (discussion of road system, capability, actual use, peak use)
- m) discussion of fiscal situation - tax base, tax rates, growth, decline, hospitals and emergency services.

Presentation of the information will provide a good basis for the establishment and documentation of the "without federal project" condition. Through discussions with others, interpretation of data, trend analysis and informed judgement, this information will be molded into a plausible, and cohesive presentation of what is likely to transpire in the study area and the extent to which a new Federal project may be a factor in this.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 05:	Environmental Studies
TASKS:	H
IN-KIND SERVICES:	\$4,000
PERFORMED BY:	District of Columbia
SCHEDULE:	Months 12-18

The District of Columbia will provide assistance in the development of alternatives for the modification of Kingman Lake. Considerations will include existing and proposed future uses of the project area and lake sediment quality.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 13:	Study Management
TASKS:	A, B, C, D, E, H, I, M, N
IN-KIND SERVICES:	\$20,000
PERFORMED BY:	District of Columbia
SCHEDULE:	Months 1-42

The District of Columbia shall participate with the Corps of Engineers in managing study activities. Policy, general guidance, and overall study direction shall be furnished by an Executive Committee; membership is specified in the feasibility cost-sharing agreement (FCSA). The Executive Committee shall meet or confer by telephone on an as-needed basis. Non-Federal members of the Executive Committee shall participate with Corps of Engineers members in Issue Resolution Conferences, review of progress reports and recommendations prepared by the Study Management Team, decisions regarding report preparation and project recommendations, and resolution of any disputes.

The Executive Committee shall be assisted by a Study Management Team consisting of staff level personnel. The Study Management Team shall coordinate on all matters relating to prosecution of the study and compliance with the FCSA, including cost estimates, schedules, work elements, financial transactions, and recommendations to the Executive Committee. The Study Management Team shall meet or confer on a regular basis approximately four to six times per year.

For day-to-day management, the District of Columbia and the Corps of Engineers shall each designate a study manager whose responsibility is to complete the feasibility study. The Sponsor's study manager shall be responsible for insuring the timely completion of all in-kind services and the transfer of all information to the Corps of Engineers for input to other work tasks or for inclusion in the feasibility report. The respective study managers shall also be responsible for preparing, negotiating, and monitoring contracts with others.

The District of Columbia shall participate in discussions with the Corps of Engineers pertaining to the requirements of the Local Cooperation Agreement (LCA). A model LCA shall be provided prior to initiation of this task. The purposes of the LCA are to define the respective roles and cost obligations of the Federal government and the project sponsor, and to provide the local assurances necessary for the project authorization. The discussions of the draft LCA will occur primarily in months 20 through 24 of the feasibility study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 14 & 15: Plan Formulation/Report Preparation
TASKS: 14F, 15A, 15B
IN-KIND SERVICES: \$3,500
PERFORMED BY: District of Columbia
SCHEDULE: Months 1-36

- 14F. Sponsor will assist in the review and selection of alternative plans for the District of Columbia and provide consolidated comments which reflect the views of the appropriate District of Columbia agencies.
- 15A&B Sponsor will provide information for and review of quarterly reports on the study progress. In addition, the consolidated comments of the appropriate District of Columbia Agencies will be provided for the draft feasibility report.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 02: Implementation Studies
TASKS: A
IN-KIND SERVICES: \$2,700
PERFORMED BY: Prince George's County
SCHEDULE: Months 18-25

Prince George's County shall conduct the necessary financial analyses for the preparation of the Sponsor's Financing Plan and the Statement of Financial Capability to the extent of involvement of Prince George's County.

The Financing Plan shall be a clear and convincing description of the Sponsor's intention to meet its financial obligations for project construction in accordance with the project funding schedule. The Financing Plan shall include a schedule of estimated Federal and non-Federal expenditures by Federal fiscal year (including Federal outlays, Sponsor's contributions, lands, easements, rights-of-way, relocations, and disposal areas (LERR&D)). The total shares displayed in the schedule should exactly reflect cost-sharing policy and agree with figures presented in the Local Cooperation Agreement (LCA). The Financing Plan shall also include a schedule of the sources and uses of non-Federal funds during and after construction by Federal fiscal year. These include outlays and income during construction (cash payments, LERR&D, associated costs, bond-related costs, funds on hand, revenues, appropriations, grants, interest, and bond proceeds) and outlays after construction (bond debt service, government repayments, operation costs, maintenance costs, and rehabilitation costs).

The Statement of Financial Capability is intended to provide evidence of the Sponsor's authority to use the identified funding sources and the Sponsor's capability to obtain remaining funds, if any. It should be signed by the appropriate empowered official(s) representing the Sponsor. The Statement of Financial Capability is Sponsor and project specific and shall be at a level of detail necessary to show such capability:

- a) where capability is clear (sufficient funds available, large revenue base, good bond rating) evidence of this is all that needs to be provided;
- b) where capability is unclear (Sponsor relies on full faith and credit to obtain remaining funds), a credit analysis demonstrating the Sponsor's credit worthiness is required;
- c) if non-guaranteed debt is used to obtain remaining funds (limited tax, particular revenue source), an analysis should be included demonstrating that projected revenues or proceeds are reasonably certain and are sufficient to cover the Sponsor's stream of costs over time;
- d) if third party contributions are to be used, comparable data (separate financing plan and statement of capability) for the third party should be included along with evidence of the third party's legal commitment to the Sponsor.

The Financing Plan and signed Statement of Financial Capability must be presented to the Baltimore District for review and assessment in the 23rd month of the study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 3:	Demographic Studies
TASKS:	A
IN-KIND SERVICES:	\$2,600
PERFORMED BY:	Prince George's County
SCHEDULE:	Months 17-20

Prince George's County shall document the existing population, employment, housing, income, land use, and industrial activity characteristics of the identified study area. The Sponsor shall obtain the necessary reports from the local, regional, and State agencies involved. The Sponsor shall also document the projected future conditions of the study area, as forecast by the pertinent resource agencies, for a 50-year planning horizon. OBERS projections are suggested as one source of data. This task is not intended to include the development of new economic forecasts. The time horizon for this study is 50 years.

Information and discussion is to be provided for the following:

- a) general population growth (decline) b) migration patterns c) age and sex profiles d) total employment/unemployment and related rates e) employment by sector f) discussion of major employers in the study area g) discussion of growth (decline) in employment opportunities h) household formation i) percapita income and household income j) land use patterns and changes k) development plans & opportunities (res, com, recreational, et al) (federal, state, regional, local) l) traffic type and patterns (discussion of road system, capability, actual use, peak use) m) discussion of fiscal situation - tax base, tax rates, growth, decline, hospitals and emergency services.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 5:	Environmental Studies
TASKS:	5F(1)
IN-KIND SERVICES:	\$2,800
PERFORMED BY:	Prince George's County
SCHEDULE:	Months 6-14

Prince George's County Department of Environmental Resources will assist in the conceptual design of the floodway wetlands. Assistance will include field visits and meetings which will result in a range of wetland alternatives for the sites which will restore fish and wildlife habitat without jeopardizing the flood control aspects of the project.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 08: Survey and Mapping
TASKS: 08C
IN-KIND SERVICES: \$50,000
PERFORMED BY: Prince George's County
SCHEDULE: Months 1-3

Sponsor will provide as an in-kind service surveying of the Bladensburg flood control area for HEC-2 modeling. The specific task requirements are contained in the August 26, 1991 letter from Greenhorne and O'Mara to Mr. Ali Abbasi, Watershed Protection Branch, Prince George's County Department of Natural Resources, reference Contract No. 90-2038, Task Order No. 3.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 11:	Design
TASKS:	I
IN-KIND SERVICES:	\$4,500
PERFORMED BY:	Prince George's County
SCHEDULE:	Months 1-6

Prince George's County will provide utility locations for all potential sites within Prince George's County. In the initial project stages, existing maps will be utilized. Up to three shovel tests will be used for verification as required by the Corps of Engineers.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 02:	Implementation Studies
TASKS:	A
IN-KIND SERVICES:	\$6,600
PERFORMED BY:	Montgomery County
SCHEDULE:	Months 18-25

Montgomery County shall conduct the necessary financial analyses for the preparation of the Sponsor's Financing Plan and the Statement of Financial Capability to the extent of involvement of Prince George's County.

The Financing Plan shall be a clear and convincing description of the Sponsor's intention to meet its financial obligations for project construction in accordance with the project funding schedule. The Financing Plan shall include a schedule of estimated Federal and non-Federal expenditures by Federal fiscal year (including Federal outlays, Sponsor's contributions, lands, easements, rights-of-way, relocations, and disposal areas (LERR&D)). The total shares displayed in the schedule should exactly reflect cost-sharing policy and agree with figures presented in the Local Cooperation Agreement (LCA). The Financing Plan shall also include a schedule of the sources and uses of non-Federal funds during and after construction by Federal fiscal year. These include outlays and income during construction (cash payments, LERR&D, associated costs, bond-related costs, funds on hand, revenues, appropriations, grants, interest, and bond proceeds) and outlays after construction (bond debt service, government repayments, operation costs, maintenance costs, and rehabilitation costs).

The Statement of Financial Capability is intended to provide evidence of the Sponsor's authority to use the identified funding sources and the Sponsor's capability to obtain remaining funds, if any. It should be signed by the appropriate empowered official(s) representing the Sponsor. The Statement of Financial Capability is Sponsor and project specific and shall be at a level of detail necessary to show such capability:

- a) where capability is clear (sufficient funds available, large revenue base, good bond rating) evidence of this is all that needs to be provided;
- b) where capability is unclear (Sponsor relies on full faith and credit to obtain remaining funds), a credit analysis demonstrating the Sponsor's credit worthiness is required;
- c) if non-guaranteed debt is used to obtain remaining funds (limited tax, particular revenue source), an analysis should be included demonstrating that projected revenues or proceeds are reasonably certain and are sufficient to cover the Sponsor's stream of costs over time;
- d) if third party contributions are to be used, comparable data (separate financing plan and statement of capability) for the third party should be included along with evidence of the third party's legal commitment to the Sponsor.

The Financing Plan and signed Statement of Financial Capability must be presented to the Baltimore District for review and assessment in the 23rd month of the study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 03: Demographic Studies
TASKS: A
IN-KIND SERVICES: \$1,000
PERFORMED BY: Montgomery County
SCHEDULE: Months 18-25

Montgomery County shall document the existing population, employment, housing, income, land use, and industrial activity characteristics of the Montgomery County portion of the study area. The Sponsor shall obtain the necessary reports from the local, regional, and State agencies involved. The Sponsor shall also document the projected future conditions of the study area, as forecast by the pertinent resource agencies, for a 50-year planning horizon. OBERS projections are suggested as one source of data. This task is not intended to include the development of new economic forecasts. The time horizon for this study is 50 years.

Information and discussion is to be provided for the following:

- a) general population growth (decline)
- b) migration patterns
- c) age and sex profiles
- d) total employment/unemployment and related rates
- e) employment by sector
- f) discussion of major employers in the study area
- g) discussion of growth (decline) in employment opportunities
- h) household formation
- i) percapita income and household income
- j) land use patterns and changes
- k) development plans & opportunities (res, com, recreational, et al) (federal, state, regional, local)
- l) traffic type and patterns (discussion of road system, capability, actual use, peak use)
- m) discussion of fiscal situation - tax base, tax rates, growth, decline, hospitals and emergency services.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 13:	Study Management
TASKS:	A, B, C, D, E, H, I, M, N
IN-KIND SERVICES:	\$20,000
PERFORMED BY:	Montgomery County
SCHEDULE:	Months 1-42

Montgomery County shall participate with the Corps of Engineers in managing study activities. Policy, general guidance, and overall study direction shall be furnished by an Executive Committee; membership is specified in the feasibility cost-sharing agreement (FCSA). The Executive Committee shall meet or confer by telephone on an as-needed basis. Non-Federal members of the Executive Committee shall participate with Corps of Engineers members in Issue Resolution Conferences, review of progress reports and recommendations prepared by the Study Management Team, decisions regarding report preparation and project recommendations, and resolution of any disputes.

The Executive Committee shall be assisted by a Study Management Team consisting of staff level personnel. The Study Management Team shall coordinate on all matters relating to prosecution of the study and compliance with the FCSA, including cost estimates, schedules, work elements, financial transactions, and recommendations to the Executive Committee. The Study Management Team shall meet or confer on a regular basis approximately four to six times per year.

For day-to-day management, the Sponsor and the Corps of Engineers shall each designate a study manager whose responsibility is to complete the feasibility study. The Sponsor's study manager shall be responsible for insuring the timely completion of all in-kind services and the transfer of all information to the Corps of Engineers for input to other work tasks or for inclusion in the feasibility report. The respective study managers shall also be responsible for preparing, negotiating, and monitoring contracts with others.

Montgomery County shall participate in discussions with the Corps of Engineers pertaining to the requirements of the Local Cooperation Agreement (LCA). A model LCA shall be provided prior to initiation of this task. The purposes of the LCA are to define the respective roles and cost obligations of the Federal government and the project sponsor, and to provide the local assurances necessary for the project authorization. The discussions of the LCA will occur primarily in months 20 through 24 of the feasibility study.

ANACOSTIA RIVER AND TRIBUTARIES
FEASIBILITY STUDY

SUBACCOUNT 14 & 15: Plan Formulation/Report Preparation
TASKS: 14F, 15A, 15B
IN-KIND SERVICES: \$3,500
PERFORMED BY: Montgomery County
SCHEDULE: Months 1-36

14F. Sponsor will assist in the selection of alternative plans for Montgomery County.

15A&B Sponsor will provide information for and review of quarterly reports on the study progress. In addition, the consolidation comments of all Montgomery County Agencies will be provided for the draft feasibility report.

INITIAL PROJECT MANAGEMENT PLAN
ANACOSTIA RIVER AND TRIBUTARIES

WORK TASKS AND COST ESTIMATE

SUBACCOUNT SUBACCOUNT
NUMBER DESCRIPTION

MANAGEMENT

FEASIBILITY PHASE

*****SOURCE OF FUNDING*****

TASK DESCRIPTION	CORPS WASHINGTON STUDY D.C.	IN-KIND SERVICES	PRINCE GEORGE'S SERVICES	MONTGOMERY COUNTY SERVICES	ICPRE SERVICES	IN-KIND SERVICES MMCOG	IN-KIND SERVICES MDNR	IN-KIND TOTAL SERVICES COST
B. COORDINATE ROUTINE ACTIVITIES BETWEEN CORPS AND SPONSOR.	24,300	0	6,000	0	0	0	6,000	48,800
C. MONITOR PROGRESS ON WORK TASKS, INCLUDING IN-KIND SERVICES.	19,500	1,500	2,000	3,500	0	1,500	2,000	39,000
D. PREPARE AND CONDUCT MEETINGS OF EXECUTIVE COMMITTEE.	10,300	1,000	1,000	300	0	1,000	1,000	20,600
E. PREPARE AND CONDUCT MEETINGS OF STUDY MGMT TEAM.	16,300	2,500	1,000	300	0	2,500	1,000	32,600
F. PREPARE PERIODIC STATUS REPORTS FOR EXECUTIVE COMMITTEE AND STUDY MANAGEMENT TEAM.	4,300	2,000	300	300	0	2,000	0	8,600
G. COORDINATE SPONSOR'S CASH CONTRIBUTIONS WITH FEDERAL BUDGET CYCLE.	2,900	1,300	300	300	0	1,300	0	5,800
H. PREPARE ANNUAL BUDGET TESTIMONY, WITH REVISIONS AS NECESSARY.	4,300	1,000	1,000	300	0	1,000	1,000	8,600
I. PREPARE AND MONITOR SCHEDULE FOR OBLIGATION AND EXPENDITURE OF FUNDS.	3,000	1,000	0	1,000	0	1,000	0	6,000
J. COORDINATE WITH NORTH ATLANTIC DIVISION, OFFICE OF CHIEF OF ENGINEERS, AND NON-FEDERAL SPONSOR(S); CONDUCT CHECKPOINT MEETINGS AND ISSUE RESOLUTION CONFERENCES.	12,000	0	0	0	0	0	12,000	24,000
K. PREPARE PROJECT MANAGEMENT PLAN (PMP).	16,300	0	2,000	300	0	0	2,000	32,600
L. PREPARE GOVERNMENT ESTIMATES, NEGOTIATE CONTRACTS, AND MONITOR PROGRESS OF CONTRACTOR ACTIVITIES.	6,700	3,200	0	300	0	3,200	0	13,400
M. DEVELOP LCA (MC, PG, DC, NPS).	11,100	0	5,000	1,100	0	0	5,000	22,200
N. PREPARE LETTER OF INTENT.	3,900	700	1,000	500	0	700	1,000	7,800
SUBTOTAL	143,200	14,200	20,000	8,800	0	14,200	20,000	286,400
A. ANALYZE FUTURE "WITHOUT" PROJECT CONDITIONS.	7,500	0	0	0	0	0	7,500	15,000
B. ANALYZE FUTURE "WITH" PROJECT CONDITIONS.	7,500	0	0	0	0	0	7,500	15,000
C. FORMULATE ALTERNATIVES.	7,500	0	0	0	0	0	7,500	15,000
D. EVALUATE ALTERNATIVES FOR COMPLETENESS, EFFECTIVENESS, EFFICIENCY AND ACCEPTABILITY.	8,700	0	0	0	0	0	8,700	17,400
E. CONDUCT RISK/UNCERTAINTY ANALYSIS.	6,000	0	0	0	0	0	4,000	12,000
F. SELECT ALTERNATIVES.	6,000	400	1,500	400	0	400	1,500	12,000
SUBTOTAL	43,200	400	1,500	400	0	400	1,500	86,400
A. PREPARE, PRINT, AND DISTRIBUTE PROGRESS REPORT FOR IN-HOUSE REVIEW (CORPS AND SPONSOR).	8,000	1,000	1,000	1,000	0	1,000	1,000	16,000
B. PREPARE, PRINT, AND DISTRIBUTE PRELIMINARY DRAFT REPORT FOR IN-HOUSE REVIEW (CORPS AND SPONSOR).	9,000	3,000	1,000	1,000	0	3,000	1,000	18,000
C. REVISE, PRINT, AND DISTRIBUTE DRAFT REPORT FOR PUBLIC REVIEW.	11,600	5,000	0	1,600	0	5,000	0	23,200

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INITIAL PROJECT MANAGEMENT PLAN
AMACOSTIA RIVER AND TRIBUTARIES

WORK TASKS AND COST ESTIMATE

SUBACCOUNT NUMBER DESCRIPTION

TASK DESCRIPTION
D. REVISE, PRINT, AND SUBMIT FINAL REPORT TO HIGHER HEADQUARTERS FOR APPROVAL.
E. PROCESSING AND REVIEW OF REPORT BY WASHINGTON LEVEL AGENCIES.

SUBTOTAL

TOTAL

FEASIBILITY PHASE

SOURCE OF FUNDING

CORPUS STUDY	WASHINGTON D.C. SERVICES	IN-KIND SERVICES	PRINCE GEORGE'S SERVICES	IN-KIND SERVICES	MONTGOMERY COUNTY SERVICES	IN-KIND SERVICES	ICPRB	IR-KIND SERVICES	MMCCO	IN-KIND SERVICES	IN-KIND SERVICES	TOTAL
15,000	7,500	0	0	0	7,500	0	0	0	0	0	0	30,000
25,000	10,900	0	3,200	0	10,900	0	0	0	0	0	0	50,000
68,600	27,400	2,000	6,800	0	27,400	2,000	0	3,000	0	0	0	137,200
1,225,000	230,300	37,800	187,400	62,600	357,800	31,100	57,000	131,000	0	90,000	30,000	2,450,000

WASHINGTON D.C. CASH CONTRIBUTION =	230,300	IN-KIND SERVICES =	37,800	TOTAL =	268,100
PRINCE GEORGE'S COUNTY CASH CONTRIBUTION =	187,400	IN-KIND SERVICES =	62,600	TOTAL =	250,000
MONTGOMERY COUNTY CASH CONTRIBUTION =	357,800	IN-KIND SERVICES =	31,100	TOTAL =	388,900
INTERSTATE COMMISSION (ICPRB) CASH CONTRIBUTION =	57,000	IN-KIND SERVICES =	131,000	TOTAL =	188,000
METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS =	0	IN-KIND SERVICES =	90,000	TOTAL =	90,000
STATE OF MARYLAND CASH CONTRIBUTION =	30,000	IN-KIND SERVICES =	10,000	TOTAL =	40,000
TOTAL NON-FEDERAL CASH CONTRIBUTION =	862,500	TOTAL IN-KIND	362,500	TOTAL NON-FEDERAL =	1,225,000
TOTAL IN-KIND	362,500	TOTAL NON-FEDERAL CASH	862,500		
TOTAL NON-FEDERAL CONTRIBUTION =	1,225,000	TOTAL NON-FEDERAL	1,225,000		
TOTAL STUDY COST	2,450,000	TOTAL FEDERAL	1,225,000		

* Denotes Study Tasks Which are Common to All Jurisdictions.

APPENDIX B
ART, DC & MD
STUDY SCHEDULE

FEASIBILITY PHASE

TASK	YEAR 1												YEAR 2												YEAR 3											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Survey/Mapping NE & NW Floodway	*****												*****												*****											
Locate Existing Utilities	+++++																																			
H & H Modeling and Evaluation	+++++																																			
Geotechnical Investigations	+++++																																			
Formulate and Evaluate Alternatives													+++++																							
Design Pump Station Alternatives													+++++																							
Design Flow Concentrator													+++++																							
Design Modifications for Drop Structures													+++++																							
Design Fish Habitat Structures													+++++																							
Design Tree Location/Alignment													+++++																							
Survey Wetland Alternatives	*****												*****												*****											
Structural Analysis of Existing Facilities	+++++																																			
Perform Geotechnical Analyses	+++++																																			
Perform Hydraulic Analyses	+++++																																			
Perform Water Quality Analyses	+++++																																			
Formulate Wetland Alternatives	+++++																																			
Design Modifications For Wetland Conversions													+++++																							
Design Wetland Creation													+++++																							
Survey Seawalls and Foundations	*****												*****												*****											
Perform Hydrographic Survey	+++++																																			
Perform Geotechnical Analyses	+++++																																			
Flood Plain Analysis	+++++																																			
Formulate Alternatives	+++++												+++++																							
Perform Hydraulic Analyses	+++++																																			
Perform Water Quality Analyses	+++++																																			
Formulate Open Water/Wetland Alternatives	+++++																																			
Design Outlet Modifications													+++++																							
Design Fringe Wetland Alternatives													+++++																							
Coordination and Public Involvement Program	*****												*****												*****											
Implementation Plan	*****												*****												*****											
Demographic Studies													+++++																							
Evaluate Economic Impacts													+++++																							
Develop Rec, Envmtl and Cultl Base Data	+++++																																			
Evaluate Rec, Envmtl and Cultl Impacts	+++++																																			
FHS Involvement, Draft and Final Reports	+++++																																			
Real Estate	+++												+++++																							
Project Management Plan													+++++																							
Develop Quantities and Cost Estimates													+++++																							
Develop Local Cooperation Agreement													+++++																							
Prepare Draft Final Report/EIS													+++++																							
Study Management	*****												*****												*****											
NAD Review	*****												*****												*****											
Prepare Final Report	*****												*****												*****											
NAD Review	*****												*****												*****											

MILESTONES	P3	TRC	TRC	P4	P5	P6	P7	P8	P9
TRC - TECHNICAL RESOLUTION CONFERENCE									
P3 - DISTRICT DOCUMENTS COORDINATION MEETING									
P4 - DIVISION RECEIVES FORMULATION ANALYSIS									
P5 - DIVISION APPROVES FORMULATION ANALYSIS									
P6 - DIVISION RECEIVES DRAFT FEASIBILITY REPORT									
P7 - DIVISION APPROVES DRAFT FEASIBILITY REPORT									
P8 - DIVISION RECEIVES FINAL REPORT									
P9 - DIVISION ENGINEER RELEASES PUBLIC NOTICE									
STUDY DURATION									
REVIEW									
TOTAL									
COMPLETION DATE									