



COUNTY OF LOS ANGELES
DEPARTMENT OF BEACHES AND HARBORS



STAN WISNIEWSKI
DIRECTOR

KERRY GOTTLIEB
CHIEF DEPUTY

June 27, 2001

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, California 90012

Dear Supervisors:

**APPROVAL OF COST SHARING AGREEMENT AND GRANT APPLICATION
RESOLUTION FOR A SPECIAL STUDY OF LOS ANGELES COUNTY SHORELINE
BEACH EROSION (3rd and 4th DISTRICTS) (3 VOTES)**

**IT IS JOINTLY RECOMMENDED WITH THE DIRECTOR OF THE DEPARTMENT OF
PUBLIC WORKS THAT YOUR BOARD:**

1. Find that the recommended actions in items 2. and 3. below are statutorily exempt under the provisions of the California Environmental Quality Act;
2. Authorize the Director of the Department of Beaches and Harbors to sign the proposed cost sharing agreement between the County and the U.S. Army Corps of Engineers and other documents necessary for the completion of the Los Angeles County Shoreline Special Study;
3. Adopt the attached resolution requesting a State Department of Boating and Waterways grant to partially fund the third and fourth years of the Study.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

On July 21, 1998, the Board of Supervisors unanimously approved a motion by Supervisor Knabe that directed the Department of Beaches and Harbors (DBH) to convene a task force "to seek solutions and take actions to restore our beaches and coastline." The motion established three objectives for the task force: 1) to inventory the condition of the

The Honorable Board of Supervisors
June 27, 2001
Page 2

County's beaches; 2) to identify funding sources to accomplish beach restoration; and 3) to formulate a long-term maintenance plan, with assigned jurisdictional responsibilities.

The main conclusion of the task force was that a credible database of beach sand conditions was necessary to understand trends in beach erosion and to justify state and federal funding assistance for beach replenishment projects. The task force learned that the U.S. Army Corps of Engineers (COE) had conducted similar studies for the Counties of San Diego and Orange, which made federal funding assistance easier for them to obtain. In order to secure future federal sources of funding for our County's beach protection and sand replenishment projects, it is critical to establish that there be a "federal interest" in preserving County beaches. The proposed Special Study described below can establish such a federal interest.

Therefore, with the assistance of the task force, DBH and the Department of Public Works (DPW) staff have arranged with the COE to undertake a "Los Angeles County Shoreline Special Study" (Study). Approval of the proposed cost sharing agreement (Attachment 1) with the COE will allow this five-year, \$5.233 million study to commence. It requires the County to serve as local co-sponsor and provide or arrange for one-half the total study cost in the form of cash and/or in-kind services.

On November 28, 2000, your Board approved a resolution authorizing DBH to seek a grant of \$500,000 from the State Department of Boating and Waterways (DBAW), which would pay for one-half of the first two years of the County's share of the Study cost. DBAW has approved that grant application. The remaining one-half cost for the first two years will be provided in the form of DPW technical assistance and DBH agency and public coordination services.

DBH has been informed by DBAW that there may be additional funds in the DBAW 2002-2003 Fiscal Year budget that could be used for the County's cash requirements in the third and fourth years of the Study. Therefore, we are also requesting your adoption of a resolution (Attachment 2) authorizing the DBH Director to seek additional DBAW funding in the amount of \$540,000 for the third and fourth years of the Study. DBH will also pursue grant funding for year five.

IMPLEMENTATION OF STRATEGIC PLAN GOALS

The recommended action will enable the development of beach erosion trend data and preparation of a sand management plan, as well as likely establish a "federal interest" in protecting our beaches. Such interest is necessary to secure future federal funding assistance on beach replenishment projects. The study results are vital to the County's beach recreation program, and thus serve goal number 3, "Organizational Effectiveness," of the County's Strategic Plan. The grant application for additional DBAW funding assistance also serves Strategic Plan goal number 4, "Fiscal Responsibility".

FISCAL IMPACT/FINANCING

Attachment 3 is the Study cost breakdown, showing for each County fiscal year and Study task the cash and in-kind services contributions required of the County and the Federal government.

The in-kind services will be in the form of technical work, project management duties, and coordination assistance. The COE is seeking DPW assistance in obtaining beach survey data that are not currently available. Although DPW conducted beach surveys from the 1930s to the 1970s, with some localized additional surveys in the 1980s, the program has been suspended for over ten years due to funding constraints. DPW will perform in-kind services associated with digitizing its historical beach survey data and integrating this data into a Geographic Information System (GIS) to enhance plotting capabilities and to facilitate computer analysis of shoreline trends and volumetric calculations. Since this study will enhance the Flood Control District's ability to more effectively maintain, protect, and upgrade its storm drain outlets along the coastline, funding for DPW's in-kind services will be financed from the Flood Control Fund. DBH will assist in managing and coordinating the Study with other agencies through the Beach Replenishment Task Force.

If no additional grant funding is obtained for years three through five, the County would be responsible for up to \$808,250 in cash contributions over those three years. The \$809,000 in in-kind contribution over the same period would be funded through the Flood Control Fund and existing DBH resources. County cash payments could be made in approximately equal amounts over the three-year period. DBH would attempt to secure additional funding for the cash contribution through the annual budget process or by seeking financial

The Honorable Board of Supervisors
June 27, 2001
Page 4

participation from coastal cities. The County may also discontinue its local sponsorship for any future year of the Study upon giving 30-days notice.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

The Project Management Plan (Attachment 4) sets out the following Study objectives:

1. To analyze coastal processes for future use in beach erosion projects;
2. To establish beach nourishment material quality criteria (based on results of a pilot project);
3. To identify and characterize beach nourishment material sources (offshore and inland);
4. To identify long-term beach erosion problem areas with recommendations for future studies/projects;
5. To establish a GIS database with possible integrated numerical models to predict long-term shoreline erosion; and
6. To establish a long-term sand management plan for Los Angeles County beaches.

DBH and DPW have reviewed and endorse the draft Project Management Plan and proposed cost sharing agreement. County Counsel has reviewed and approved the cost sharing agreement and resolution as to form.

On June 20, 2001, the Beach Commission unanimously endorsed the recommended action.

ENVIRONMENTAL DOCUMENTATION

Approval of the cost sharing agreement and adoption of the resolution authorizing a grant application to DBAW are statutorily exempt under the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines Section 15262.

The Honorable Board of Supervisors
June 27, 2001
Page 5

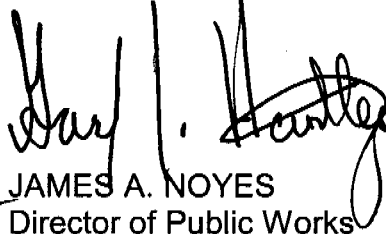
IMPACT ON CURRENT SERVICES (OR PROJECTS)

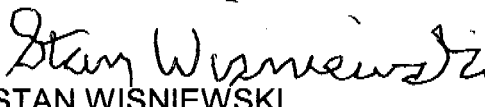
Understanding beach erosion trends and planning for sand management will assist the County in protecting and enhancing its beach recreational resources.

CONCLUSION

Upon adoption of the Resolution, please return one certified copy each to the Departments of Beaches and Harbors and Public Works.

Respectfully submitted,


for JAMES A. NOYES
Director of Public Works


STAN WISNIEWSKI
Director of Beaches and Harbors

JAN:SW:RGF:mc

Attachments: (4)

c: Chief Administrative Officer
County Counsel
Executive Officer, Board of Supervisors
Auditor-Controller
Department of Public Works

Note: This document can be downloaded and saved as a Microsoft Word document.

Grants Manual-Appendix 1

Los Angeles County Chief Administrative Office Grant Management Statement for Grants \$100,000 or More

Department: Beaches and Harbors		
Grant Project Title and Description : State Boating & Waterways Public Beach Restoration		
Grant will provide for 3rd & 4th year of County cost for the Coast of CA study been done with USACE to protect the coastline from erosion.		
Funding Agency ST. Boating & Waterways	Program (Fed. Grant #/State Bill or Code #) Public Beach Restoration Program	Grant Acceptance Deadline July 1, 2001
Total Amount of Grant Funding: \$540,000		County Match: \$1,308.250 (In-kind)
Grant Period: two years	Begin Date: 7-1-2001	End Date: 6-30-2005
Number of Personnel Hired Under This Grant: 0	Full Time:	Part Time:
Obligations Imposed on the County When the Grant Expires		
Will all personnel hired for this program be informed this is a grant-funded program?	Yes <input type="checkbox"/> N/A <input type="checkbox"/>	No <input type="checkbox"/>
Will all personnel hired for this program be placed on temporary ("N") items?	Yes <input type="checkbox"/> N/A <input type="checkbox"/>	No <input type="checkbox"/>
Is the County obligated to continue this program after the grant expires?	Yes <input type="checkbox"/> N/A <input type="checkbox"/>	No <input type="checkbox"/>
If the County is not obligated to continue this program after the grant expires, the Department will: <u>Discontinue the study until additional grants are found.</u>		
a.) Absorb the program cost without reducing other services	Yes <input type="checkbox"/> N/A <input type="checkbox"/>	No <input type="checkbox"/>
b.) Identify other revenue sources (describe below)	Will continue to research other grant sources	
	Yes <input type="checkbox"/>	No <input type="checkbox"/>
c.) Eliminate or reduce, as appropriate, positions/program costs funded by the grant.	Yes <input type="checkbox"/> N/A <input type="checkbox"/>	No <input type="checkbox"/>
Impact of additional personnel on existing space:		
N/A		
Other requirements not mentioned above:		
N/A		

Department Head Signature

Date: 6/28/01

Stan Wisniewski

AGREEMENT
BETWEEN THE DEPARTMENT OF THE ARMY
AND
THE COUNTY OF LOS ANGELES
FOR THE LOS ANGELES COUNTY SHORELINE FEASIBILITY STUDY

THIS AGREEMENT is entered into this _____ day, of _____, 20___, by and between the Department of the Army (hereinafter the "Government"), represented by the District Engineer executing this Agreement, and the County of Los Angeles (hereinafter the "Sponsor"),

WITNESSETH, that

WHEREAS, the Congress (Senate and/or House Committees) has authorized the Department of the Army, represented by the District Engineer to conduct a study to develop a Regional Shore Protection/Sand Management Plan, similar in concept to Watershed Management Plans pursuant to the Energy and Water Development Appropriations Act for 2000, Public Law 106-60, dated September 29, 1999; and

WHEREAS, the U.S. Army Corps of Engineers has conducted a reconnaissance study of the problems related to shore protection, navigation, recreation, storm damage reduction, environmental restoration, and other related shoreline needs along the coastal zone of Los Angeles County, California pursuant to this authority, and has determined that further study in the nature of a "Feasibility Phase Study" (hereinafter the "Study") is required to fulfill the intent of the study authority and to assess the extent of the Federal interest in participating in a solution to the identified problem; and

WHEREAS, Section 105 of the Water Resources Development Act of 1986 (as amended by Section 225 of the Water Resources Development Act of 2000) specifies the cost sharing requirements applicable to the Study;

WHEREAS, the Sponsor has the authority and capability to furnish the cooperation hereinafter set forth and is willing to participate in study cost sharing and financing in accordance with the terms of this Agreement; and

WHEREAS, the Sponsor and the Government understand that entering into this Agreement in no way obligates either party to implement a project and that whether the Government supports a project authorization and budgets it for implementation depends upon, among other things, the outcome of the Study and whether the proposed solution is consistent with the Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies and with the budget priorities of the Administration;

NOW THEREFORE, the parties agree as follows:

ARTICLE I - DEFINITIONS

For the purposes of this Agreement:

A. The term "Study Costs" shall mean all disbursements by the Government pursuant to this Agreement, from Federal appropriations or from funds made available to the Government by the Sponsor, and all negotiated costs of work performed by the Sponsor pursuant to this Agreement. Study Costs shall include, but not be limited to: labor charges; direct costs; overhead expenses; supervision and administration costs; the costs of participation in Study Management and Coordination in accordance with Article IV of this Agreement; the costs of 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 "estimated Study Costs" shall mean the estimated cost of performing the Study as of the effective date of this Agreement, as specified in Article III.A. of this Agreement.

C. The term "excess Study Costs" shall mean Study Costs that exceed the estimated Study Costs and that do not result from mutual agreement of the parties, a change in Federal law that increases the cost of the Study, or a change in the scope of the Study requested by the Sponsor.

D. The term "study period" shall mean the time period for conducting the Study, commencing with the release to the U.S. Army Corps of Engineers Los Angeles District of initial Federal feasibility funds following the execution of this Agreement and ending when the Assistant Secretary of the Army (Civil Works) submits the feasibility report to the Office of Management and Budget (OMB) for review for consistency with the policies and programs of the President.

E. The term "PMP" shall mean the Project Management Plan, which is attached to this Agreement and which shall not be considered binding on either party and is subject to change by the Government, in consultation with the Sponsor.

F. The term "negotiated costs" shall mean the costs of in-kind services to be provided by the Sponsor in accordance with the PMP.

G. The term "fiscal year" shall mean one fiscal year of the Government. The Government fiscal year begins on October 1 and ends on September 30.

ARTICLE II - OBLIGATIONS OF PARTIES

A. The Government, using funds and in-kind services provided by the Sponsor and funds appropriated by the Congress of the United States, shall expeditiously prosecute and complete the Study, in accordance with the provisions of this Agreement and Federal laws, regulations, and policies.

B. In accordance with this Article and Article III.A., III.B. and III.C. of this Agreement, the Sponsor shall contribute cash and in-kind services equal to fifty (50) percent of Study Costs other than excess Study Costs. The Sponsor may, consistent with applicable law and regulations, contribute up to 50 percent of Study Costs through the provision of in-kind services. The in-kind services to be provided by the Sponsor, the estimated negotiated costs for those services, and the estimated schedule under which those services are to be provided are specified in the PMP. Negotiated costs shall be subject to an audit by the Government to determine reasonableness,

allocability, and allowability.

C. The Sponsor shall pay a fifty (50) percent share of excess Study Costs in accordance with Article III.D. of this Agreement.

D. The Sponsor understands that the schedule of work may require the Sponsor to provide cash or in-kind services at a rate that may result in the Sponsor temporarily diverging from the obligations concerning cash and in-kind services specified in paragraph B. of this Article. Such temporary divergences shall be identified in the quarterly reports provided for in Article III.A. of this Agreement and shall not alter the obligations concerning costs and services specified in paragraph B. of this Article or the obligations concerning payment specified in Article III of this Agreement.

E. If, upon the award of any contract or the performance of any in-house work for the Study by the Government or the Sponsor, cumulative financial obligations of the Government and the Sponsor would result in excess Study Costs, the Government and the Sponsor agree to defer award of that and all subsequent contracts, and performance of that and all subsequent in-house work, for the Study until the Government and the Sponsor agree to proceed. Should the Government and the sponsor require time to arrive at a decision, the Agreement will be suspended in accordance with Article X., for a period of not to exceed six months. In the event the Government and the sponsor have not reached an agreement to proceed by the end of their 6 month period, the Agreement may be subject to termination in accordance with Article X.

F. No Federal funds may be used to meet the Sponsor's share of Study Costs unless the Federal granting agency verifies in writing that the expenditure of such funds is expressly authorized by statute.

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

ARTICLE III - METHOD OF PAYMENT

A. The Government shall maintain current records of contributions provided by the parties, current projections of Study Costs, current projections of each party's share of Study Costs, and current projections of the amount of Study Costs that will result in excess Study Costs. At least quarterly, the Government shall provide the Sponsor a report setting forth this information. As of the effective date of this Agreement, estimated Study Costs are \$5,233,000 and the Sponsor's share of estimated Study Costs is \$2,616,500. In order to meet the Sponsor's cash payment requirements for its share of estimated Study Costs, the Sponsor must provide a cash contribution currently estimated to be \$1,308,250. The dollar amounts set forth in this Article are based upon the Government's best estimates, which reflect the scope of the study described in the PMP, projected costs, price-level changes, and anticipated inflation. Such cost estimates are subject to adjustment by the Government and are not to be construed as the total financial responsibilities

of the Government and the Sponsor.

B. The Sponsor shall provide its cash contribution required under Article II.B. of this Agreement in accordance with the following provisions:

1. For purposes of budget planning, the Government shall notify the Sponsor by 31 May of each year of the estimated funds that will be required from the Sponsor to meet the Sponsor's share of Study Costs for the upcoming fiscal year.

2. No later than 60 calendar days prior to the scheduled date for the Government's issuance of the solicitation for the first contract for the Study or for the Government's anticipated first significant in-house expenditure for the Study, the Government shall notify the Sponsor in writing of the funds the Government determines to be required from the Sponsor to meet its required share of Study Costs for the first fiscal year of the Study. No later than 30 calendar days thereafter, the Sponsor shall provide an electronic funds transfer in accordance with procedures established by the Government, or by delivering a check payable to "FAO, USAED, Los Angeles District" to the District Engineer.

3. For the second and subsequent fiscal years of the Study, the Government shall, no later than 60 calendar days prior to the beginning of the fiscal year, notify the Sponsor in writing of the funds the Government determines to be required from the Sponsor to meet its required share of Study Costs for that fiscal year, taking into account any temporary divergences identified under Article II.D of this Agreement. No later than 30 calendar days prior to the beginning of the fiscal year, the Sponsor shall make the full amount of the required funds available to the Government through the funding mechanism specified in paragraph B.2. of this Article.

4. The Government shall draw from the funds provided by the Sponsor such sums as the Government deems necessary to cover the Sponsor's share of contractual and in-house fiscal obligations attributable to the Study as they are incurred.

5. In the event the Government determines that the Sponsor must provide additional funds to meet its share of Study Costs, the Government shall so notify the Sponsor in writing. No later than 60 calendar days after receipt of such notice, the Sponsor shall make the full amount of the additional required funds available through the funding mechanism specified in paragraph B.2. of this Article.

C. Within ninety (90) days after the conclusion of the Study Period or termination of this Agreement, the Government shall conduct a final accounting of Study Costs, including disbursements by the Government of Federal funds, cash contributions by the Sponsor, the amount of any excess Study Costs, and credits for the negotiated costs of the Sponsor, and shall furnish the Sponsor with the results of this accounting. Within thirty (30) days thereafter, the Government, subject to the availability of funds, shall reimburse the Sponsor for the excess, if any, of cash contributions and credits given over its required share of Study Costs, other than excess Study Costs, or the Sponsor shall provide the Government any cash contributions required for the Sponsor to meet its required share of Study Costs other than excess Study Costs.

D. The Sponsor shall provide its cash contribution for excess Study Costs as required under

Article II.C. of this Agreement by the electronic funds transfer procedure established by USACE Finance Center, or by delivering a check payable to "FAO, USAED, Los Angeles District" to the District Engineer as follows:

1. After the project that is the subject of this Study has been authorized for construction, no later than the date on which a Project Cooperation Agreement is entered into for the project; or

2. In the event the project that is the subject of this Study is not authorized for construction by a date that is no later than 5 years of the date of the final report of the Chief of Engineers concerning the project, or by a date that is no later than 2 years after the date of the termination of the study, the Sponsor shall pay its share of excess costs on that date (5 years after the date of the Chief of Engineers or 2 years after the date of the termination of the study).

ARTICLE IV - STUDY MANAGEMENT AND COORDINATION

A. To provide for consistent and effective communication, the Sponsor and the Government shall appoint named senior representatives to an Executive Committee. The Executive Committee shall include the District Commander, Deputy District Engineer, and Chief of Planning, Los Angeles District, and officials selected by the Sponsor. Thereafter, the Executive Committee shall meet regularly until the end of the Study Period.

B. Until the end of the Study Period, the Executive Committee shall generally oversee the Study consistently with the PMP.

C. The Executive Committee may make recommendations that it deems warranted to the District Engineer on matters that it oversees, including suggestions to avoid potential sources of dispute. The Government in good faith shall consider such recommendations. The Government has the discretion to accept, reject, or modify the Executive Committee's recommendations.

D. The Executive Committee shall appoint representatives to serve on a Study Management Team. The Study Management Team shall keep the Executive Committee informed of the progress of the Study and of significant pending issues and actions, and shall prepare periodic reports on the progress of all work items identified in the PMP.

E. The costs of participation in the Executive Committee (including the cost to serve on the Study Management Team) shall be included in total project costs and cost shared in accordance with the provisions of this Agreement.

ARTICLE V - DISPUTES

As a condition precedent to a party bringing any suit for breach of this Agreement, that party must first notify the other party in writing of the nature of the purported breach and seek in good faith to resolve the dispute through negotiation. If the parties cannot resolve the dispute through negotiation, they may agree to a mutually acceptable method of non-binding alternative dispute resolution with a qualified third party acceptable to both parties. The parties shall each pay 50 percent of any costs for the services provided by such a third party as such costs are incurred. Such costs shall not be included in Study Costs. The existence of a dispute shall not excuse the

parties from performance pursuant to this Agreement.

ARTICLE VI - MAINTENANCE OF RECORDS

A. Within 60 days of the effective date of this Agreement, the Government and the Sponsor shall develop procedures for keeping books, records, documents, and other evidence pertaining to costs and expenses incurred pursuant to this Agreement to the extent and in such detail as will properly reflect total Study Costs. These procedures shall incorporate, and apply as appropriate, the standards for financial management systems set forth in the Uniform Administrative Requirements for Grants and Cooperative Agreements to state and local governments at 32 C.F.R. Section 33.20. The Government and the Sponsor shall maintain such books, records, documents, and other evidence in accordance with these procedures for a minimum of three years after completion of the Study and resolution of all relevant claims arising therefrom. To the extent permitted under applicable Federal laws and regulations, the Government and the Sponsor shall each allow the other to inspect such books, documents, records, and other evidence.

B. In accordance with 31 U.S.C. Section 7503, the Government may conduct audits in addition to any audit that the Sponsor is required to conduct under the Single Audit Act of 1984, 31 U.S.C. Sections 7501-7507. Any such Government audits shall be conducted in accordance with Government Auditing Standards and the cost principles in OMB Circular No. A-87 and other applicable cost principles and regulations. The costs of Government audits shall be included in total Study Costs and shared in accordance with the provisions of this Agreement.

ARTICLE VII - RELATIONSHIP OF PARTIES

The Government and the Sponsor act in independent capacities in the performance of their respective rights and obligations under this Agreement, and neither is to be considered the officer, agent, or employee of the other.

ARTICLE VIII - OFFICIALS NOT TO BENEFIT

No member of or delegate to the Congress, nor any resident commissioner, shall be admitted to any share or part of this Agreement, or to any benefit that may arise therefrom.

ARTICLE IX - FEDERAL AND STATE LAWS

In the exercise of the Sponsor's rights and obligations under this Agreement, the Sponsor 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 5500.11 issued pursuant thereto and published in 32 C.F.R. Part 195, as well as Army Regulations 600-7, entitled "Nondiscrimination on the Basis of Handicap in Programs and Activities Assisted or Conducted by the Department of the Army".

ARTICLE X - TERMINATION OR SUSPENSION

A. This Agreement shall terminate at the conclusion of the Study Period, and neither the Government nor the Sponsor shall have any further obligations hereunder, except as provided in

Article III.C.; provided, that prior to such time and upon thirty (30) days written notice, either party may terminate or suspend this Agreement. In addition, the Government shall terminate this Agreement immediately upon any failure of the parties to agree to extend the study under Article II.E. of this agreement, or upon the failure of the sponsor to fulfill its obligation under Article III. of this Agreement. In the event that either party elects to terminate this Agreement, both parties shall conclude their activities relating to the Study and proceed to a final accounting in accordance with Article III.C. and III.D. of this Agreement. Upon termination of this Agreement, all data and information generated as part of the Study shall be made available to both parties.

B. Any termination of this Agreement shall not relieve the parties of liability for any obligations previously incurred, including the costs of closing out or transferring any existing contracts.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, which shall become effective upon the date it is signed by the District Engineer for the U.S. Army Corps of Engineers, Los Angeles District.

DEPARTMENT OF THE ARMY

COUNTY OF LOS ANGELES

BY _____
Colonel, Corps of Engineers
District Engineer
Los Angeles District

BY _____
Stan Wisniewski
Director

**RESOLUTION OF THE LOS ANGELES COUNTY BOARD OF SUPERVISORS
REQUESTING A GRANT IN THE AMOUNT OF \$540,000 FROM
THE STATE DEPARTMENT OF BOATING AND WATERWAYS
FOR A CORPS OF ENGINEERS SPECIAL STUDY ON CONTROL OF LOS
ANGELES COUNTY BEACH AND SHORELINE EROSION**

WHEREAS, erosion of Los Angeles County beaches endangers a local recreation industry that generates an estimated gross product of \$20.7 billion in the County annually; and

WHEREAS, the U.S. Army Corps of Engineers will perform a five-year special shoreline study on beach erosion on the Los Angeles County coast at a cost of \$5,233,000, 50 percent of which must be borne by a local sponsor under a proposed cost sharing agreement, one-half of which may be in in-kind services; and

WHEREAS, the County's cash obligation under the proposed cost sharing agreement is \$1,308,000; and

WHEREAS, the County may be eligible for State of California Department of Boating and Waterways grant funds in the sum of \$540,000 to help the County meet its cost sharing obligation for the third and fourth year of the study;

NOW, THEREFORE, BE IT RESOLVED that the Los Angeles County Board of Supervisors requests the State Department of Boating and Waterways to grant the amount of not less than \$540,000 to reimburse a portion of the local cost sharing obligation for the third and fourth year of the proposed special shoreline study; and

BE IT FURTHER RESOLVED that the Director of Beaches and Harbors, Stan Wisniewski, is authorized to sign all necessary documents to obtain the grant and to accept the grant for the purpose of funding the proposed special shoreline study, subject to prior approval of the grant documents by County Counsel.

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The foregoing Resolution was on the _____ day of _____, 2000 adopted by the Board of Supervisors of the County of Los Angeles and ex officio the governing body of all other special assessment and taxing districts, agencies and authorities for which said Board so acts.

Violet Varona-Lukens, Executive Officer-
Clerk of the Board of Supervisors of
the County of Los Angeles

By: _____
Deputy

APPROVED AS TO FORM:

LLOYD W. PELLMAN
County Counsel

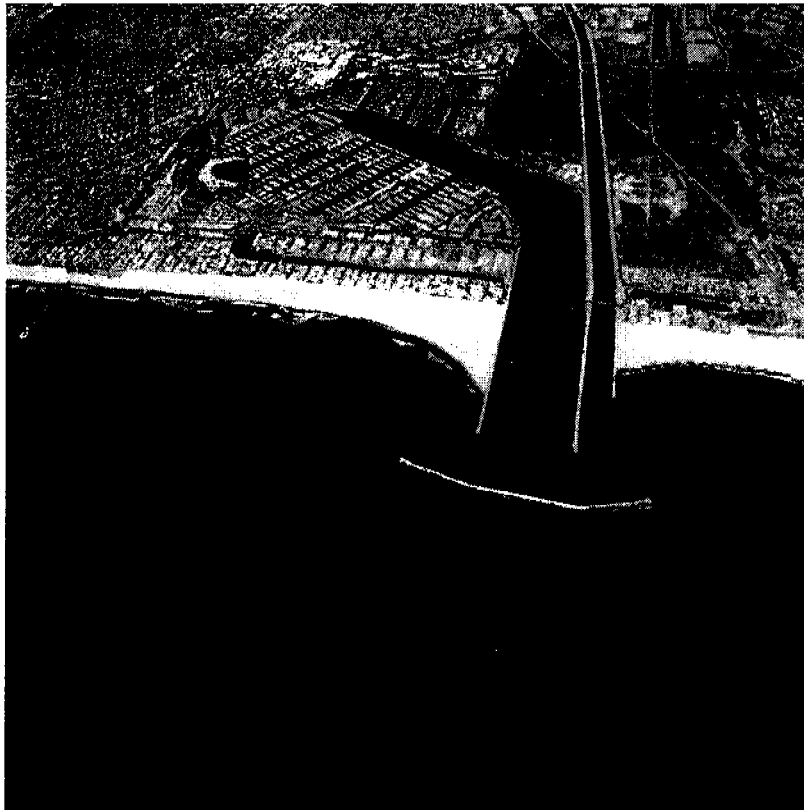
By:  _____
Deputy

**CCSTWS, LOS ANGELES COUNTY
STUDY COST BREAKDOWN
BY LOS ANGELES COUNTY FISCAL YEAR
8-Jun-01**

LA COUNTY FISCAL YEAR	Federal and Non-Federal Cash																					
	NEARSHORE & BEACH PROFILE SURVEYS		DIGITIZE HISTORIC DATA & GIS		OCEAN WAVES DATA		COASTAL ANALYSIS & MODELING		GEOTECH INVESTIGATE & MONITOR		ENVR		COASTAL ENGINEERING & DESIGN		BEACH SOCIAL & ECONOMICS		MGMT, PLNG, RPTS, RVW & PUBLIC		TOTAL CASH FED/NF		TOTAL CASH	
	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed/Local	
YR 1 (Jul 01 - Jun 02)	502	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	25	0	527	250	777
YR 2 (Jul 02 - Jun 03)	200	0	0	0	0	250	0	0	100	0	75	0	75	0	0	0	75.75	0	525.75	250	775.75	
YR 3 (Jul 03 - Jun 04)	0	0	0	0	0	171	150	0	160	0	14	56	150	0	0	0	43	43	517	270	787	
YR 4 (Jul 04 - Jun 05)	0	0	0	0	0	40	350	0	47.5	87.5	0	0	69	81	0	0	61.5	61.5	526	270	796	
YR 5 (Jul 05 - Jun 06)	0	0	0	0	0	0	128	128	130	50	0	0	197.75	27.25	0	0	63	63	516.75	268.25	785	
TOTAL (YRS 1-5)	702	0	0	0	0	711	628	128	437.5	137.5	89	56	491.75	106.25	0	0	268.25	167.5	2616.50	1308.25	3924.75	

LA COUNTY FISCAL YEAR	Non Federal In-Kind										TOTAL INKIND	TOTAL STUDY COST (CASH \$ IN-KIND)
	NEARSHORE & BEACH PROFILE SURVEYS	DIGITIZE HISTORIC DATA & GIS	OCEAN WAVES DATA	COASTAL ANALYSIS & MODELING	GEOTECH INVESTIGATE & MONITOR	ENVR	COASTAL ENGINEERING & DESIGN	BEACH SOCIAL & ECONOMICS	MGMT, PLNG, RPTS, RVW & PUBLIC			
YR 1 (Jul 01 - Jun 02)	0	225	0	0	0	0	0	0	25		250	1027
YR 2 (Jul 02 - Jun 03)	0	153	0	0	0	0	0	48	48.25		249.25	1025
YR 3 (Jul 03 - Jun 04)	222	0	0	0	0	0	0	0	50		272	1059
YR 4 (Jul 04 - Jun 05)	436	0	0	0	0	0	0	0	50		486	1264
YR 5 (Jul 05 - Jun 06)	0	0	0	0	0	0	0	0	51		51	838
TOTAL (YRS 1-5)	658	378	0	0	0	0	0	48	224.25		1308.25	5233

Los Angeles County Shoreline Special Study Project Management Plan



Los Angeles District, U.S. Army Corps of Engineers



May 2001

**Los Angeles County Shoreline Special Study
Project Management Plan**

Table of Contents

Chapter 1. The Project Management Plan.....	1-1
Chapter 2. Section 905(b)(WRDA) Analysis	2-1
Chapter 3. Work Breakdown Structure	3-1
Chapter 4. Scopes of Work	4-1
Chapter 5. Responsibility Assignment	5-1
Chapter 6. Special Study Schedule	6-1
Chapter 7. Special Study Cost Estimate.....	7-1
Chapter 8. Quality Control Plan	8-1
Chapter 9. Identification of Procedures and Criteria.....	9-1
Chapter 10. Public Involvement and Coordination.....	10-1
Chapter 11. Statement of Certification.....	11-1

List of Enclosures

Enclosure A. Project Area Map	A-1
Enclosure B. CESPDP Milestone System - Special Study Phase	B-1
Enclosure C. Detailed Scopes of Work	C-1
Enclosure D. PMP Quality Certification	D-1
Enclosure E. List of Acronyms	E-1

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter I. The Project Management Plan

This Project Management Plan (PMP) is an attachment to the Feasibility Cost Sharing Agreement (FCSA) for the Los Angeles County Shoreline Special Study. This document defines the planning approach, activities to be accomplished, schedule, and associated costs that the Federal Government and the Non-Federal Sponsors will be supporting financially. The PMP defines a contract between the Corps of Engineers and the Non-Federal Sponsor – the County of Los Angeles, and reflects a buy-in on the part of the financial backers, as well as those who will be performing and reviewing the activities involved in the shoreline special study.

Basis for Change

Because planning is an iterative process without a predetermined outcome, more or less funding and time may be required to accomplish the formulation and reformulation and evaluation of the alternative plans. With clear descriptions of the scopes and assumptions outlined in the PMP, deviations are easier to identify. The impact in either time or money is easily assessed and decisions can be made on how to proceed. The PMP provides a basis for change.

Review and Evaluation

The PMP is a basis for the review and evaluation of the special study report. Since the PMP represents a contract among study participants, it will be used as the basis to determine if the draft special study report has been developed in accordance with established procedures and previous agreements. The PMP reflects mutual agreements between the Los Angeles District (CESPL), the South Pacific Division (CESPD), the Non-Federal Sponsor – the County of Los Angeles, and Headquarters, U.S. Army Corps of Engineers (HQUSACE) regarding the Los Angeles County Shoreline Special Study. The PMP establishes the scope, critical assumptions, methodologies, and level of detail for the studies that are to be conducted during the feasibility phase study. Review of the draft report will be to insure that the study has been developed consistent with these agreements. The objective is to provide early assurance that the project is developed in a way that can be supported by higher headquarters.

Management Tool

The PMP is a study management tool that includes scopes of work to be used for funds allocation by the Project Manager. It forms the basis for identifying commitments to the Non-Federal Sponsor and serves as a basis for performance measurement.

Summary of PMP Requirements

This PMP is comprised of the following chapters:

Chapter 1. The Project Management Plan. This chapter includes a description of the PMP and a summary of PMP requirements.

Chapter 2. Section 905(b) Analysis. Chapter 2 is the approved Section 905(b) Analysis that includes an overview of the reconnaissance study findings, the plan formulation rationale and proposed streamlining initiatives. This chapter also documents any deviations from the approved Section 905(b) Analysis that have occurred during the negotiations of the FCSA.

Chapter 3. Work Breakdown Structure. A product-based Work Breakdown Structure (WBS) defines the project, subprojects, and parent tasks and other tasks that will be accomplished throughout the study. The major milestone tasks and definitions are included as Enclosure B to the PMP.

Chapter 4. Scopes of Work. Detailed scope of the tasks and activities that describes in narrative form the work to be accomplished, and answers the questions -- What? How? How Much? This chapter provides a reference to the detailed scopes of work, which are included as Enclosure C to the PMP.

Chapter 5. Responsibility Assignment. The Organizational Breakdown Structure (OBS) defines who will perform work on the study. This allows the identification of the functional organization that will perform each of the tasks in a Responsibility Assignment Matrix (RAM).

Chapter 6. Special Study Schedule. The schedule defines when key decision points, CESPDP milestone conferences and mandatory HQUSACE milestones will be accomplished.

Chapter 7. Special Study Cost Estimate. This is the baseline cost estimate for the feasibility phase study.

Chapter 8. Quality Management Plan. Chapter 8 supplements the District's Quality Management Plan. It highlights any deviations to the District's plan and lists the members of the study team and the independent review team.

Chapter 9. Identification of Procedures and Criteria. This chapter references the regulations and other guidance that cover the planning process and reporting procedures.

Chapter 10. Public Involvement and Coordination. Public involvement and coordination activities for the Los Angeles County Shoreline Special Study are described in this Chapter.

**Los Angeles County Shoreline Special Study
Project Management Plan**

**Chapter 2. Los Angeles County Shoreline Special Study
Section 905(b) (WRDA 86) Analysis**

Study Authority

This Section 905(b) (WRDA 86) Analysis was prepared as an initial response to the Energy and Water Development Appropriations Act for 2000, Public Law 106-60, September 29, 1999, which reads as follows:

The Committee has included funds to update a Project Study Plan for the Coast of California Storm and Tidal Waves Study, Los Angeles County, California.

The Los Angeles County Shoreline Study is a continuation of the Coast of California Storm and Tidal Waves Study (CCSTWS), authorized by Section 208 of the Flood Control Act of 1965 (PL 89-298). In that legislation, the Congress recognized that knowledge of processes is a prerequisite to making effective planning and engineering decisions regarding the California coastline. The legislation mandated a series of six regional feasibility phase type special studies covering the entire California Coast. The first, a CCSTWS study of the San Diego Region Shoreline was completed in 1992, and an Orange County Shoreline study is scheduled for completion this year.

Study Purpose

The CCSTWS Los Angeles County Shoreline Special Study is not intended to look at specific shoreline problems for the purposes of developing specific measures or alternatives for implementation. In keeping with the original Congressional mandate, the Los Angeles County Shoreline Special Study is proposed to develop a Regional Shore Protection/ Sand Management Plan, similar in concept to Watershed Management Plans. The development of such a Management Plan will involve the quantification of sediment sources, sinks, and transport characteristics; the quantification and interpretation of past shoreline changes; the establishment and testing of techniques for assessing shoreline response to natural forces and human activity on local and regional bases, and developing a means of rapid dissemination of information from the study to all interested parties, including governmental planning, engineering and regulatory agencies, and others interested in the California Coastline.

The purpose of the CCSTWS Los Angeles County Shoreline 905(b) Reconnaissance Report, which was initiated on March 28, 2000, is to determine if there is a Federal interest in a cost-shared-feasibility-phase-type special study to provide a framework for shore protection, navigation, recreation, storm damage reduction, environmental restoration, and other related shoreline needs along the coastal zone of Los Angeles County, California. The reconnaissance study has resulted in the finding

that there is a Federal interest in continuing the study into the feasibility-level special study phase. The purpose of this Section 905(b) (WRDA 86) Analysis is to document the basis for this finding and establish the scope of the special study. As the document that establishes the scope of the special study, the Section 905(b) (WRDA) Analysis is used as the chapter of the Project Management Plan which presents the reconnaissance overview and formulation rationale.

Location of Study, Non-Federal Sponsor and Congressional District

The study area covers the 119 kilometers (74 miles) of Pacific Ocean coastline located along the County of Los Angeles in California. Los Angeles County is bordered by Ventura County to the north and on the south by Orange County. The coastal morphology is highly diversified throughout the region. From the Ventura/Los Angeles County Line to west of Santa Monica, with the exception of Trancas, Zuma, and Malibu Point, the beaches are typically narrow, with bluff formations fronting the steep Santa Monica Mountain Range and are aligned in an east-west direction. The Santa Monica Bay stretches from Point Dume southeast to Point Vincente on the Palos Verdes Peninsula with two recreational small craft harbors, Marina del Rey and King Harbor, located within this coastal segment. The Palos Verdes Peninsula largely consists of small crescent beaches flanked by rocky headlands. Downcoast of the peninsula and extending to the San Gabriel River, the majority of the shoreline is low-lying with a moderate dry beach. The shoreline is highly industrialized around Los Angeles and Long Beach Harbors. A small marina and associated recreational facilities are located inside the Alamitos Bay bounded immediately on the southeast by the San Gabriel River.

The Non-Federal Sponsor for the feasibility phase study is Los Angeles County.

The study area is in the 24th, 29th, 36th and 38th Congressional Districts.

Prior Reports and Existing Projects

The following reports have been reviewed as part of this study:

1. *Beach-Erosion Control Report on Cooperative Study of Pacific Coastline of the State of California from Point Mugu to San Pedro Breakwater*, U.S. Army Corps of Engineers, Los Angeles District, September 1950. This comprehensive study analyzes data acquired from previous investigations in the regions of the California coastline between Point Mugu in Ventura County and the San Pedro breakwater located in Los Angeles County. This report represents the earliest and most extensive historical database regarding the volumes and directions of alongshore littoral transport, historical shoreline orientation, wave dynamics, fluvial watershed discharges, and beach morphology. The findings indicate that the littoral material reaching Santa Monica Bay appears to be principally derived from sources upcoast from Point Mugu and that local tributary streams contribute relatively small amounts of materials to the beach. The direction of transport was found to be generally downcoast except for the region between Torrance Beach and Rocky Point where there appeared to be a local reversal in the net littoral transport direction. The report indicates that the artificial beach fill alternative would afford the best means of beach erosion protection in the Santa Monica Bay.

2. *Beach Erosion Control Report on Cooperative Research and Data Collection Program of Coast of Southern California-Cape San Martin to Mexican Boundary Three-Year Report -- 1964-1966*, U.S. Army Corps of Engineers, December 1967. This report presents the results of a three-year research and data collections program for the California coastline, south of San Luis Obispo County, to identify areas of active or potential erosion. The data collections, specifically for Los Angeles County, include aerial and ground photographs, hydrographic surveys, numerous sand samples, descriptions of beach morphology, and a step-resistant wave gage located at the end of the Ventura Pier. Trends of severe erosion were found to occur at Westward Beach, upcoast of Point Dume, at Redondo Beach, downcoast of the Redondo Submarine Canyon, and along several pocket beaches located on the Palos Verdes Peninsula.

3. *Inspection Tour of Shoreline-Santa Barbara to Imperial Beach*, Department of Water Resources, U.S. Army Corps of Engineers, June 1966. This report provides aerial photographs, design specifications, and improvement plan formulations for increased shore protection between Point Mugu and the San Pedro Breakwater.

4. *Beach Erosion Control Report on Cooperative Research and Data Collection Program of Coast of Southern California-Cape San Martin to Mexican Boundary Three-Year Report- 1967-1969*, U.S. Army Corps of Engineers, December 1970. This second three-year report presents the results of a research and data collections program for the California coastline, south of San Luis Obispo County, for identifying areas of active or potential erosion. With regards to Los Angeles County, the report includes analysis from data obtained through beach inspections, aerial and ground photographs, hydrographic surveys, sand samples, one wave gage, offshore sand sources, shoreline conditions, evaluation of wave refraction models and beach profiles.

5. *Sediment Management for Southern California Mountains, Coastal Plains and Shoreline-Part C: Coastal Sediment Delivery by Major Rivers in Southern California*, William R. Brownlie and Brent D. Taylor, February 1981. This joint study conducted by the Environmental Quality Laboratory at the California Institute of Technology and the Center for Coastal Studies at the Scripps Institution of Oceanography determines the effects human developments have had on the sedimentary processes of Southern California's drainage basins. Fifty three percent of the total drainage area in Southern California has been altered by either major water retention structures, diversion facilities, channelization, sand and gravel mining operations, percolation basins, ground water pumping, irrigation ditches, or other man-made systems. This report provides detailed information on the sedimentary delivery and transport rates of the major and minor fluvial sources throughout Los Angeles, Orange, and San Diego Counties.

6. *Southern California Coastal Photography and Beach Profile Index*, Coast of California Storm and Tidal Waves Study, U.S. Army Corps of Engineers, February 1986. This report provides an inventory of the available coastal data in the archives located at the Corps of Engineers Los Angeles District Headquarters. The information includes aerial and ground photographs, beach profile data, beach characteristics, historic shoreline changes, and the effects of storms on beach morphology and structures. The report also documents any significant beach and inlet changes along the Los Angeles County shoreline.

7. *Consolidated Plan of Study, Coast of California Storm and Tidal Waves Study*, U. S. Army Corps of Engineers, March 1987. This report presents a consolidated study

plan for the entire 1,760-kilometer (1,100-mile) California Shoreline after a plan of study laid out in 1983 and to be completed in 1989 for the San Diego Region. Six shoreline regions are discretized on the basis of scientific and practical consideration. All study efforts shall result in three products: coastal erosion and water level planning map, a coastal planning handbook for the region, and a state-of-the-coast summary report. This consolidated plan defines different levels of study plans based upon a number of practical and scientific reasons. For the South Coast Region including both Los Angeles and Orange Counties, a minimum plan of study is recommended.

8. *Final Feasibility Report for Storm Damage Reduction at Redondo Beach – King Harbor Area, Los Angeles County, California*, U.S. Army Corps of Engineers, March 1988. This feasibility report outlines improvements to the King Harbor Breakwaters necessary to decrease undesirable wave action and storm damages within the harbor. The analysis of tidal charts, incident and inner harbor wave characteristics, bathymetric data, littoral transport, and average storm activity are incorporated in the design formulation. The optimum plan for storm damage reduction included a combination of alterations to the north and south breakwaters, namely raising the north breakwater by 2.4 meters (8 feet) and extending the south breakwater by 91 meters (300 feet) into the harbor.

9. *Reconnaissance Report on the Reconstruction of the Santa Monica Breakwater, Santa Monica, California*, U.S. Army Corps of Engineers, January 1989. This draft reconnaissance report presents alternative plans for restoring the Santa Monica Breakwater. Gradual deterioration of the breakwater, originally constructed in 1933, has led to profile changes along the shoreline and have caused adverse impacts to the quality of the moorings in the lee of the structure. Existing environmental and physical conditions at the site are investigated. These conditions include water quality, wind information, tidal records, wave characteristics, and littoral sand transport processes.

10. *Rancho Palos Verdes/Rolling Hills, California Reconnaissance Study*, U.S. Army Corps of Engineers, June 1990. This final report reconnaissance study investigates the feasibility of constructing shoreline erosion mitigation measures in order to prevent landslides, provide additional bluff stabilization, and eliminate the transport of debris and sediment to the nearshore and downcoast areas along the Palos Verdes Peninsula. The areas of prime concern include Portuguese Bend, Abalone Cove, and Klondike Canyon. Nine alternative measures are proposed with varying degrees of expected environmental and economic benefits.

11. *Historical Changes in the Beaches of Los Angeles County, Malaga Cove to Topanga Canyon, 1935-1990*, Coastal Frontiers Corporation prepared for County of Los Angeles Department of Beaches and Harbors, 1992. This report presents the effects human intervention has had along the Santa Monica Bay shoreline from Malaga Cove to Topanga Canyon. Beach profile surveys were conducted in May 1989, January 1990, and June 1990, the results of which were compared to historic profile surveys conducted in October 1935, November 1946, and October 1953. The analysis indicates that as a result of the 23.7 million cubic meters (31.6 million cubic yards) of artificial nourishment placed along the beach, 95% of which was placed prior to 1970, and the subsequent departmentalization of the shoreline, beach widths have increased by 45 to 152 meters (150 to 500 feet) throughout the nourished region. Adverse beach erosion impacts as a result of human activities were found to occur downdrift of some of the early constructed

coastal structures; however, by nourishing the adjacent beaches at the time of construction, this problem was mitigated.

12. *Malibu/Los Angeles County Coastline Reconnaissance Report, Los Angeles County, California*, U.S. Army Corps of Engineers, April 1994. The purpose of this reconnaissance report is to determine the feasibility of providing shoreline protection against coastal storm flooding along the open coast from the Los Angeles/Ventura County line to Malaga Cove in Los Angeles County. This report outlines the physical characteristics within the study area including the geologic setting, beach morphology, sediment sources, bathymetry, climate, tides and water levels, wave activity, currents, and the basic coastal processes of the region. The project shoreline was divided into 20 reaches on the basis of distinguishing the differences in the beach characteristics and the density of the existing development. In addition, potential erosion prone areas are identified through coastal engineering analysis, and alternative mitigation strategies are proposed.

13. *Santa Monica Breakwater Feasibility Report--Volume I and II*, U.S. Army Corps of Engineers, May 1995. This final report presents the recommended plan for the revitalization of the Santa Monica Breakwater. The design plan consists of rebuilding a 275-meter (900-foot) section of the existing southerly breakwater to an elevation of +3 meters (+10 feet) MLLW. The plan also includes providing 12 moorings and other boating support facilities to reestablish commercial boating opportunities, navigational aids, upgrading and maintaining the deteriorated sections of the existing breakwater, and the construction of a half acre boulder field to restore the submarine rocky environmental habitat.

The study is not considering potential modifications to Federal projects in the study area.

Plan Formulation

During a feasibility phase study, the formulation of solutions to specific problems is guided by six planning steps set forth in the Water Resource Council's Principles and Guidelines. However, for this shoreline special study, the planning steps are modified as: 1) specify problems and opportunities; 2) inventory and forecast of coastal use; 3) understanding of regional coastal processes; 4) formulate regional sand management plans; 5) compare alternative plans, and 6) select a recommended plan. The scope of data called for under these six steps shall guide the gathering and presentation of information resulting from the Los Angeles County Shoreline Special Study, to assure that the resulting products can be of use to the local sponsor and other potential coastal planners.

National Objectives

1. The development and preparation of products under the CCSTWS Los Angeles County Shoreline Special Study will be pursued considering the national or Federal objective of water and related land resources planning. This national objective is to contribute to the national economic development consistent with protecting the nation's environment, pursuant to national environmental statutes, applicable executive orders, and other Federal planning requirements. Contributions to National Economic Development (NED) are increases in net value of the national output of goods and

services, expressed in monetary units. Contributions to NED are the direct benefits that accrue in the planning area and the rest of the nation. Considering this objective will assure that special study data is complete and adequate for whatever purposes it may serve in the future.

2. The Corps of Engineers has added a second national objective for Ecosystem Restoration in response to legislation and administration policy. This objective, which will also be considered during the course of the special study, is to contribute to the nation's ecosystems through ecosystem restoration, with contributions measured by changes in the amounts and values of habitat.

Public Concerns

A number of public concerns have been identified during the reconnaissance study. Initial concerns were expressed in the study authorization. Additional input was received through coordination with Los Angeles County agencies associated with coastal and shoreline issues, and initial coordination with other entities, such as members of the Los Angeles County Beach Nourishment Task Force. The public concerns related to the establishment of planning objectives and planning constraints are:

1. Episodic storm events along the coastline result in repeated damages to public and private facilities and pose additional public safety concerns.

2. Degradation of existing conditions adversely impact recreational beach opportunities and fosters the continued nearshore encroachment of public and private structures.

Problems and Opportunities

The evaluation of public concerns often reflects a range of needs perceived by the public, and described in the context of problems and opportunities that can be addressed through water and related land management plans. For each problem and opportunity, the existing conditions and the expected future conditions are described, as follows:

Storm Damages. Damages associated with storm tidal surge and increased wave intensity resulting from episodic storm events is a primary concern in Los Angeles County. Past events have caused extensive damages to both public and private facilities and have adversely impacted recreational beach opportunities. The severe storms occurring in the 1983 El Nino season caused approximately \$41 million in direct losses along the South Coast Region including both Los Angeles and Orange Counties. Public piers were destroyed; harbor breakwaters were breached; and residential and commercial properties were severely damaged. Wave runup transports seawater and suspended sand over the berm zone and onto existing roadways and coastal properties, while large-scale seaward cross-shore sediment transport results in losses of sediment to offshore locations where it is highly unlikely to return to nearshore regions. This process continues with each successive storm event, further exacerbating the impacted nearshore conditions.

Degradation of Existing Conditions. The coastal beaches of Los Angeles County, with the exception of Trancas, Zuma, Malibu Point, Will Rogers State Beach, Santa Monica Beach, Venice City Beach, Dockweiler State Beach, Manhattan State Beach and Torrance Beach, are typically narrow, which limits lateral beach access. The malnourished beaches continue to erode resulting in a depletion of dry beach width. The additional landward encroachment of the sea magnifies the damages inflicted by storm activity and decreases the recreational beach benefits. The dry beach acts as a protective buffer zone to leeward roadways and various other public and private facilities. Therefore, if the beaches are maintained properly and sustain an adequate width of dry beach, the environmental and economic impacts associated with episodic storm events are projected to decline significantly.

Planning Objectives

The standard objectives for the usual feasibility studies of coastal problems do not apply to the products mandated under Coast of California Storm and Tidal Waves Study authorities and guidelines. The planning objectives for the Los Angeles County Shoreline Special Study are specified as follows:

1. To develop an integrated coastal processes database including the quantification of potential long-term erosion trends to aid in future study and project implementation.
2. To implement a regional shore protection and sand management plan to mitigate coastal erosion and storm damage potential.
3. To reduce coastal storm-related damage to public and private properties while increasing recreational beach opportunities.

Planning Constraints

Unlike planning objectives that represent desired positive changes, planning constraints represent restrictions that should not be violated. Planning constraints which should be factored into special study products, are as follows:

1. Compliance with the Los Angeles County Coastal Plan and applicable City Local Coastal Plans.
2. Compliance with various regulatory agencies must be included in special study products. The agencies include the California Coastal Commission, California Regional Water Quality Control Board, California Department of Fish and Game, U.S. Fish and Wildlife Service, and the National Marine Fisheries Service, as well as the regulations and planning guidelines of the Corps of Engineers.

Tasks to Address Planning Objectives

Special study products which respond to the planning objectives, include:

Identification and Evaluation of the Coastal Process Components

To gain detailed knowledge of the nearshore coastal processes, the identification and evaluation of historical records, as well as additional data collections is necessary. The shoreline will be discretized into three littoral segments to aid in the analysis of the regional sediment budget of Los Angeles County. The littoral cells of Los Angeles County, beginning at the Ventura County-Los Angeles County boundary and ending at the Los Angeles County-Orange County border, include the Santa Monica Cell, the Palos Verdes Mini Cells, and the San Pedro Cell. An understanding of the mechanisms driving sediment transport is the first crucial step in developing a detailed sediment management strategy. A State-of-the-Coast Summary Report shall be prepared including storm damages in recent years, public use of shoreline, and coastal access as well as all coastal processes mechanisms such as sediment sources, sediment sinks, sediment entrapment and wave climate.

Historical and Future Data Collections. All previous data collections pertaining to Los Angeles County will be obtained and evaluated. These include aerial and ground photography, beach profile survey data, side scan sonar bathymetric investigations, sediment samples, and historical shoreline and volumetric changes. In addition, future data collections, in the way of beach profile surveys, aerial photography, and sediment sampling will be conducted to supplement the data received through previous investigations. All reviewed data will be integrated into the Geographic Information System (GIS) database for future reference and use.

Sediment Sources. Sediment sources deliver material to the coastal littoral cell via various mechanisms. For Los Angeles County these include fluvial sediment discharge, sediment yield from bluff erosion, beach nourishment, and onshore migration. The major rivers, creeks, and streams transporting sediment to the open coast will be investigated. The bluff erosion rate and the associated delivery of sediment to the nearshore coastal region along the Palos Verdes Peninsula and in the western segment of the Santa Monica cell will be estimated. In addition, sediment distributed along the shoreline through beach restoration projects will be quantified. The volume of onshore sediment migration is difficult to quantify by current standard coastal engineering practices; however, by evaluating historic and future profile surveys and bathymetric data, this value may be approximated.

Sediment Sinks. Loss of littoral transport resulting from a sediment sink alters the alongshore sediment transport for a given littoral cell, in turn affecting the entire sediment budget. The natural bathymetric features that trap a percentage of the littoral transport in Los Angeles County are the Dume Submarine Canyon and the Redondo Submarine Canyon. The alongshore sediment transport settles to the seafloor as it flows over the canyons. In addition, storm related seaward cross-shore transport processes, overwash deposits, and inland Aeolian deposits may result in a loss of sediment to the system. Sediment sink investigations involving previous and recent bathymetric data of the submarine canyons, storm damage assessments, and beach profile surveys will be analyzed to quantify the annual sediment reduction.

Sediment Entrapment. Natural and artificial structures can impede alongshore sediment transport. In Los Angeles County there are several structures that effectively trap a proportion of the alongshore sediment transport; thereby, resulting in eroded downdrift beaches. These include the natural retention features in Malibu and Palos Verdes and the man-made structures of the Santa Monica Breakwater, the Venice Breakwater, the Marina Del Rey Jetties and detached breakwater, the Chevron Groin, the King Harbor Breakwater, the Topaz Street Groin in Redondo Beach, the Los Angeles/Long Beach Harbor Breakwaters, Cabrillo Beach Groin and the San Gabriel River jetties. Determining the percentage of the accreted littoral transport from the amount bypassed around or through the structure will yield pertinent littoral transport rates to add to the formulation of the sediment budget.

Wave Climate. Wave climate information is required to provide a basic understanding of the oceanographic characteristics of the nearshore coastal region. Wave information taken from various buoy locations offshore will be analyzed to statistically determine the deepwater wave characteristics comprising wave height, period, and angle of incidence. Numerical wave transformations shall be computed to obtain the nearshore wave characteristics. In addition, nearshore wave gages will be deployed to verify the validity of the computed results of the simulated wave characteristics. This data will be used in quantifying the alongshore and cross-shore sediment transport and storm induced short-term beach erosion, and the results will aid in the development of a shoreline response model.

Development of a Shoreline Response Model

The information obtained through the identification and evaluation of nearshore coastal processes will be compiled to develop a numerical simulation model that can be used as a forecasting tool for predicting potential effects of storm damage on volumetric changes and shoreline response. The development of this tool will be a crucial asset in mitigating the design and implementation of a future sediment management plan. In addition, a water level planning map derived from the estimated wave runups under storm eroded beach conditions shall be included.

Implementation of a Regional Sediment Management and Monitoring Plan

Upon completion of the identification and evaluation of the coastal process components and the development of a shoreline response model, a regional sediment management and monitoring plan will be implemented for Los Angeles County to provide storm damage reduction while increasing recreational beach benefits.

Planning of an Opportunistic Foreshore Berm Pilot Project. To aid in the management program formulation, the planning of an opportunistic sediment placement on beach will be initiated. The purposes of this pilot project are twofold. First, the project will help develop criteria for the allowable sediment grain size distribution for beach berm material. Second, it will allow for the investigation of potential environmental impacts resulting from beach berm nourishment. Available sediment sources may be obtained from either sand removal from County's flood control debris basin or episodic bluff erosion along the Pacific Coast Highway in Malibu. Measurements determining the average background and winter storm related turbidity levels will be conducted. These background turbidity levels can then be used as a base reference to establish the

environmental assessment and monitoring criteria for any future beach nourishment projects.

Preliminary Effort

Preliminary effort under the 905(b) Reconnaissance Study indicates that the findings of the identification and evaluation of the regional coastal processes will provide the basis for developing numerical models simulating the neashore coastal responses as a result of episodic storm activity. The coastal modeling predictions and engineering evaluations will form the foundation for the implementation of a detailed regional sediment management and monitoring program. The likely array of alternatives that will be investigated in the Special Study are as follows:

Coastal Identification and Evaluation	Coastal Model Developments	Management and Monitoring Program
1. Historic/Future Data Collections with GIS Integration 2. Sediment Sources 3. Sediment Sinks 4. Sediment Entrapment 5. Wave Climate	1. Nearshore Wave Climate 2. Shoreline Response 3. Sediment Transport Flux	1. Opportunistic Sand Placement Project 2. Field Data Collections 3. Management Strategy 4. Monitoring Program

A CCSTWS State-of-the-Coast has been completed for San Diego County, and the CCSTWS Special Study of the Orange County Shoreline is scheduled for completion this year. These studies were authorized to gain a better understanding of the littoral coastal system in their respective regions and have proved pivotal in the design and implementation of storm damage reduction measures. Following the success of these CCSTWS efforts, it is evident that all phases of the identification, evaluation, management, and monitoring criterion for Los Angeles County have the potential for implementation. The magnitude of the benefits from this type of study will be substantial. A detailed knowledge of the existing conditions will be obtained providing an extensive database of information for future investigations and project action. Based on these findings, protective measures can be implemented through a regional sediment management strategy to protect against future natural destructive forces while increasing the recreational beach benefits of the coastal community.

Federal Interest

Achieving a high level of beach stabilization to promote storm damage reductions in the coastal region is an output with a high budget priority that can be achieved through the evaluation process in this special study. Because of significant amounts of physical damages to public and private facilities throughout Los Angeles County associated with episodic storm events, there is a strong Federal interest in continuing to a special study following this expedited reconnaissance study. The proposed special study shall evaluate coastal process components, develop a shoreline response model, and formulate a regional management and monitoring plan. The development of a detailed coastal database for future investigations, and the additional potential for recreational beach opportunities that will be created under this study are also in the Federal interest.

Therefore, the special study will generate potential project goals consistent with U.S. Army Corps of Engineers policies and guidelines, costs and benefits objectives, and environmental impact assessments.

Preliminary Financial Analysis

As the Non-Federal Sponsor, Los Angeles County will be required to provide 50% of the cost of the feasibility phase study. Los Angeles County is aware of the cost sharing requirements. A letter of intent from Los Angeles County stating willingness to pursue the feasibility phase study and share in its cost, and an understanding of the cost sharing that is required for future actions is included as Attachment 1.

Assumptions and Exceptions

Feasibility Phase Assumptions

The following critical assumptions will provide a basis for the feasibility study:

Without-Project Condition Assumptions. The recurrence of damages to public and private facilities associated with episodic storm events is expected to continue. As the narrow beaches of Los Angeles County continue to erode, the damage potential will intensify. Additional recreational beach benefits will be adversely impacted and the nearshore coastal environment will continue to deteriorate at an increasing rate. Therefore, the planning objectives and the subsequent mitigation measures proposed are economically justified.

Policy Exceptions and Streamlining Initiatives

The study will be conducted in accordance with the Principles and Guidelines and Corps of Engineers regulations. Exceptions to established guidance have been identified, which will streamline the feasibility study process without adversely impacting the study quality. Approval of the Section 905(b) Analysis by HQUSACE results in the following policy exceptions.

Other Approvals Required

There are no items requiring HQUSACE approval.

Feasibility Phase Milestones

Milestone	Description	Duration (mo)	Cumulative (mo)
Milestone F1	Initiate Study	0	0
Milestone F2	Public Workshop/Scoping	1	1
Milestone F3	Special Study Scoping Meeting	4	5
Milestone F4	Sand Management Plan Review Conference	32	37
Milestone F4A	Sand Management Plan Formulation Briefing	6	43
Milestone F5	Draft Special Study Report	6	49
Milestone F6	Final Public Meeting	1	50
Milestone F7	Special Study Review Conference	1	51
Milestone F8	Final Report to SPD	4	55
Milestone F9	DE's Public Notice	1	56
-	Chief's Report	2	58
-	Project Authorization	2	60

Feasibility Phase Cost Estimate

WBS#	Description	Cost
JAA00	Feas - Surveys and Mapping except Real Estate	1,738,000
JA600	Feas - Coastal Studies/Report	1,467,000
JAC00	Feas - Geotechnical Studies/Report	575,000
JA600	Feas - Engineering and Design Analysis Report	600,000
JE000	Feas - Socioeconomic Studies	48,000
JC000	Feas - Real Estate Analysis/Report	0
JD000	Feas - Environmental Studies/Report (Except USF&WL)	70,000
JE000	Feas - Fish and Wildlife Coordination Act Report	25,000
JF000	Feas - HTRV/Studies/Report	0
JG000	Feas - Cultural Resources Studies/Report	50,000
JH000	Feas - Cost Estimates	0
JI000	Feas - Public Involvement Documents	108,000
JJ000	Feas - Plan Formulation and Evaluation	120,000
JK000	Feas - Final Report Documentation	102,000
JL000	Feas - Technical Review Documents	102,000
JM000	Feas - Washington Level Report Approval (Review Support)	60,000
JPA00	Project Management and Budget Documents	168,000
JP600	Supervision and Administration	0
JPC00	Contingencies	0
LO000	Project Management Plan (PMP)	0
CO000	PEO Cost Sharing Agreement	0
Total		\$6,233,000

Views of Other Resource Agencies

Because of the funding and time constraints of the reconnaissance phase, only limited and informal coordination has been conducted with other resource agencies. Views expressed include:

Based upon the current data deficiencies and lack of knowledge regarding the coastal processes of Los Angeles County, views from various local municipalities, Los Angeles County Department of Public Works, Los Angeles County Department of Beaches and Harbors, and the Beach Nourishment Task Force are that the reduction of storm damages through beach stabilization is of prime concern and must be initiated to inhibit future damage potentials. In addition, views from the California Department of Fish and Game, U.S. Fish and Wildlife Service, and National Fisheries Service are that nearshore rock and kelp habitats shall be prevented from being impacted by the potential cross-shore sediment transport migration of the nearshore berm demonstration project and the implementation of the future regional sand management plan.

Potential Issues Affecting Initiation of Feasibility Phase

Continuation of this study into the cost-shared feasibility-level special study phase is contingent upon an executed Feasibility Cost-Sharing Agreement (FCSA). Failure to achieve an executed FCSA within 18 months of the approval of the Section 905(b) Analysis will result in termination of the study. There are no apparent issues at this time that impact on the implementation of the feasibility phase.

The schedule for signing the Feasibility Cost-Sharing Agreement is May 2001. Based on the schedule of milestones, completion of the Los Angeles County shoreline special study report (DE's Public Notice) would be in January 2006, with a potential Congressional Authorization in WRDA 2006.

Project Area Map

A map of the study area is shown in Enclosure A.

Recommendations

I recommend that the Special Study of the Coast of California Storm and Tidal Waves Study for the Los Angeles County Shoreline proceed to the feasibility phase.

Date: _____

John P. Carroll
Colonel, Corps of Engineers
District Engineer

Chapter 3. Work Breakdown Structure

Levels of the Work Breakdown Structure

The work breakdown structure is divided into the following five levels.

Level 1. The Project

Level 2. The Subprojects are established by the phase that is appropriated by Congress – in this case the feasibility-type phase of the special study. This level includes the major products generated in the feasibility-type phase: the Special Study Report, the Project Management Plan and the PED Agreement, which are identified in the first character of the work breakdown structure code.

Level 3. The Parent Tasks are generally identified as separate products that go into the final feasibility-type special study documentation. Examples of these subprojects include such items as the real estate report, the coastal report, etc. These parent tasks are normally identified with the responsibility of a particular functional organization. This level is generally identified in the second and third characters of the work breakdown structure code.

Level 4. The Tasks are major separable elements of the subprojects that are keyed to separately identifiable products that are developed for the major special study milestones. These tasks are elements of work resulting in a deliverable product which have a beginning and an end, may be accomplished within one functional organization, can be described at a work order of detail and are the lowest level that will be specifically tracked with respect to cost and schedule. As an example, the cost estimates for the draft special study report would be an example of a task. Tasks can be described as the summation of activities that would be accomplished by a particular functional organization between two of the milestone events. The milestone tasks and definitions are included in Enclosure B. The following durations between milestones are generally used for the establishment of tasks.

1. Between Milestone F1 and F3
2. Between Milestone F3 and F4
3. Between Milestone F4 and F4A
4. Between Milestone F4A and F5
5. Between Milestone F5 and F8
6. Between Milestone F8 and F9

Level 5. The Activities are separate elements of work that are managed by the functional managers to whom the tasks are assigned and which may not necessary result in a deliverable work product to another organization. These activities are not tracked separately in terms of cost and schedule but are described in the scopes of work to the extent required to provide a clear understanding of the work required.

Listing Of Tasks - Work Breakdown Structure

In accordance with the levels above, the following work breakdown structure indicates subprojects and parent tasks in bold type, followed by the subordinate tasks.

WBS#	Description
J0000	Feasibility Report (Feas)
J0000	Milestones
	Initiate Study
	Special Study Public Workshop (F2)
	Special Study Scoping Meeting (F3)
	Sand Management Plan Review Conference (F4)
	Sand Management Plan Formulation Briefing - AFB
	Draft Special Study Report
	Final Public Meeting
	Special Study Review Conference
	Special Study Report w/NEPA
	MSC Commander's Public Notice
	Filing of Final EIS/EA
	Chief's Report to ASA (CW)
	ROD Signed or FONSI Signed
	President Signs Authorization
JA000	Engineering Appendix
JAA00	Feas - Surveys and Mapping except Real Estate
	Surveys & Mapping - Beach Profile Surveys
	Surveys & Mapping - Aerial Photography
	Surveys & Mapping - Historical Survey Data Reductions
	Surveys & Mapping - GIS Integrations
	Surveys & Mapping - Draft Report
	Surveys & Mapping - Final Report
JAB00	Feas - Coastal Studies/Report
	Coastal - Data Collection and Review
	Coastal - Sediment Source Investigations
	Coastal - Sediment Sink Investigations
	Coastal - Sediment Entrapment Investigations
	Coastal - Nearshore Wave Climatology Investigations
	Coastal - Storm-Related Coastal Flooding Analysis
	Coastal - Shoreline and Volumetric Changes Evaluations
	Coastal - Sediment Budget Analysis
	Coastal - AFB Documentation
	Coastal - Draft Report
	Coastal - Final Report

Listing of Tasks - Work Breakdown Structure Continued

WBS#	Description
JAC00	Feas - Geotechnical Studies/Report
	Geotech - Geotechnical Seacliff Studies
	Geotech - Opportunistic Sand Source Investigation
	Geotech - AFB Documentation
	Geotech - Draft Report
	Geotech - Final Report
JAE00	Feas - Engineering and Design Analysis Report
	Engr & Design - Implementation of Opportunistic Foreshore Berm Pilot Project
	Engr & Design - Monitoring of Opportunistic Foreshore Berm Pilot Project
	Engr & Design - Development of a Regional Sediment Management Plan
	Engr & Design - AFB Documentation
	Engr & Design - Draft Report
	Engr & Design - Final Report
JB000	Feas - Socioeconomic Studies
	Socioecon - Existing Baseline Conditions
	Socioecon - Draft Report
	Socioecon - Final Report
JC000	Feas - Real Estate Analysis/Report
	Not Applicable
JD000	Feas - Environmental Studies/Report (Except USF&WL)
	Environ - Environmental Assessment
	Environ - Water Quality Monitoring of Opportunistic Foreshore Berm Pilot Project
JE000	Feas - Fish and Wildlife Coordination Act Report
	Environ - Fish and Wildlife CAR
JF000	Feas - HTRW Studies/Report
	Not Applicable
JG000	Feas - Cultural Resources Studies/Report
	Cultural Resources Studies Report
JH000	Feas - Cost Estimates
	Not Applicable
JI000	Feas - Public Involvement Documents
	Initial Public Meeting/NEPA Scoping
	Public Workshops in Support of Plan Selection
	Public Involvement Support to AFB
	Final Public Meeting
	Public Involvement Support to FRC
JJ000	Feas - Plan Formulation and Evaluation
	Plan Formulation and Evaluation of the Opportunistic Pilot Project
	Plan Formulation and Evaluation - AFB Documentation
	Plan Formulation and Evaluation - Draft Report
	Plan Formulation and Evaluation - Final Report

Listing of Tasks - Work Breakdown Structure Continued

JL000	Feas - Final Report Documentation
	Reproduction and Distribution of F3 Documentation
	Reproduction and Distribution of F4 Documentation
	Reproduction and Distribution of AFB Documentation
	Reproduction and Distribution of Draft Report
	Reproduction and Distribution of Final Report
JLD00	Feas - Technical Review Documents
	Independent Technical Review - F3 Documentation
	Independent Technical Review - F4 Documentation
	Independent Technical Review - AFB Documentation
	Independent Technical Review - Draft Report
	Independent Technical Review - Final Report
JMD00	Feas - Washington Level Report Approval (Review Support)
JP000	Feas - Management Documents
JPA00	Project Management and Budget Documents
	Programs and Project Management to Support F3 Milestone
	Programs and Project Management to Support F4 Milestone
	Programs and Project Management - AFB Documentation
	Programs and Project Management - Draft Report
	Programs and Project Management - Final Report
	Programs and Project Management - DE's Notice
JPB00	Supervision and Administration
	S&A - Planning Division
	S&A - Engineering Division
	S&A - Real Estate Division
	S&A - PPMD
	S&A - Contracting Division
JPC00	Contingencies
L0000	Project Management Plan (PMP)
	PMP - Draft PMP
	PMP - Final PMP
Q0000	PED Cost Sharing Agreement

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter 4. Scopes of Work

Detailed Scopes of Work

For each task that is included in the work breakdown structure, a scope of work is developed that describes the work that is to be performed. For each task, the scope describes the work, including specific activities, to be accomplished in narrative form. The scopes of work have been developed by the study team, which includes representatives of the County of Los Angeles. The scopes also reflect the policy exceptions and streamlining initiatives that have been approved in the Section 905(b) Analysis. The detailed scopes of work for the special study are organized by parent task in Enclosure C.

Durations of Tasks

The durations for the tasks are entered into the project's network analysis system (NAS) to develop the schedule that is included in Chapter 6 – Special Study Schedule. The durations are based on negotiations between the Project Manager and the chiefs of the responsible organizations, as identified in Chapter 5 – Responsibility Assignment.

Costs of Tasks

Lastly, the scopes of work for the tasks are grouped by the parent tasks that they support. The total estimates for the parent tasks are then combined in the Special Study Cost Estimate – Chapter 7. The cost estimates for the tasks are also based on negotiations between the Project Manager and the chiefs of the responsible organizations.

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter 5. Responsibility Assignment

Organizational Breakdown Structure

The scopes of work represent agreements between the Project Manager and first line supervisors of functional organizations. The functions of these organizations in support of the project are defined by the work that is assigned. All organizations responsible for tasks, including the County of Los Angeles and other agencies, are included with their organization codes in the following Organizational Breakdown Structure (OBS).

Los Angeles District	Org Code
Planning/Coastal Studies Group	CESPL-PD-WS
Planning/Economics & Social Analysis Group	CESPL-PD-E
Planning/Ecosystem Planning Section	CESPL-PD-RN
Engineering/Coastal Engineering Section	CESPL-ED-DC
Engineering/Geology & Investigations Section	CESPL-ED-GG
Engineering/Soils Design & Materials Section	CESPL-ED-GD
Engineering/Survey & Mapping Section	CESPL-ED-GS
Real Estate/Acquisitions Section	CESPL-RE-A
PPMD/Civil Projects Branch	CESPL-PM-C
Non-Federal Sponsor	Org Code
County of Los Angeles	
Other Agencies/Other Corps	Org Code
US Fish and Wildlife Service	USFWL

Responsibility Assignment Matrix

The scopes for each task are grouped by the parent task that they support and the primary responsible organization for each parent task is identified by the organization codes in the following Responsibility Assignment Matrix (RAM).

WBS#	Description	District Org	Non-Fed	Other
JAA00	Feas - Surveys and Mapping except Real Estate	CESPL-ED-GS		
JAB00	Feas - Coastal Studies/Report	CESPL-ED-DC		
JAC00	Feas - Geotechnical Studies/Report	CESPL-ED-GG		
JAEO0	Feas - Engineering and Design Analysis Report	CESPL-ED-DC		
JB000	Feas - Socioeconomic Studies	CESPL-PD-E		
JC000	Feas - Real Estate analysis Report	CESPL-RE-A		
JD000	Feas - Environmental Studies/Report(ExceptUSF&WL)	CESPL-PD-RN		
JE000	Feas - Fish and Wildlife Coordination Ad Report	-	-	USF&WL
JF000	Feas - HTRW Studies/Report	CESPL-PD-RN		
JG000	Feas - Cultural Resources Studies/Report	CESPL-PD-RN		
JH000	Feas - Cost Estimates	CESPL-ED-EU		
JI000	Feas - Public Involvement Documents	CESPL-PD-WS		
JJ000	Feas - Plan Formulation and Evaluation	CESPL-PD-WS		
JL000	Feas - Final Report Documentation	CESPL-PD-WS		
JLD00	Feas - Technical Review Documents	CESPL-PD-WS		
JM000	Feas - Washington Level Report Approval (Review Support)	CESPL-PD-WS		
JPA00	Project Management and Budget Documents	CESPL-PM-C		
JPB00	Supervision and Administration	All		
JBC00	Contingencies	Not Assigned		
L0000	Project Management Plan (PMP)	CESPL-PD-WS		
Q0000	PED Cost Sharing Agreement	CESPL-PD-WS		

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter 6. Special Study Schedule

Schedule Development

All schedules are developed using a Network Analysis System (NAS). The network is based upon the tasks that are listed in Chapter 3 – Work Breakdown Structure and the durations that are included in the detailed scopes of work in Enclosure C – Detailed Scopes of Work. Major milestones that are defined in Enclosure B – CESPDP Milestone System are also included in the schedules.

Funding Constraints

Funding for the first Fiscal Year of the special study is normally limited because of the uncertainty in the initiation of the feasibility-type special study. This constraint has been reflected in the development of the study schedule. Following the first year, an optimum schedule based upon unconstrained funding has been assumed for subsequent Fiscal Years.

Non-Federal Sponsor Commitments

Milestones become commitments when the project manager meets with the Non-Federal Sponsor, the County of Los Angeles, at the beginning of each Fiscal Year and identifies two to five tasks that are important for the Los Angeles District to complete during the Fiscal Year. These commitments will be flagged in the PROMIS database and monitored and reported on accordingly.

Milestone Schedule

The schedule for the Los Angeles County Shoreline Special Study milestones in the CESP Milestone System is as follows:

Milestone	Description	Starting Date	Completion Date
Milestone F1	Initiate Study	01-Jul-01	01-Jul-01
Milestone F2	Public Workshop/Scoping	01-Jul-01	02-Aug-01
Milestone F3	Special Study Scoping Meeting	05-Aug-01	04-Nov-01
Milestone F4	Alternative Review Conference	05-Nov-01	04-Jul-04
Milestone F4A	Alternative Formulation Briefing	05-Jul-04	03-Jan-05
Milestone F5	Draft Special Study Report	04-Jan-05	03-Jul-05
Milestone F6	Final Public Meeting	04-Jul-05	03-Aug-05
Milestone F7	Special Study Review Conference	04-Aug-05	04-Sep-05
Milestone F8	Final Report to SPD	05-Sep-05	04-Jan-06
Milestone F9	DE's Public Notice	05-Jan-06	04-Feb-06
-	Chief's Report	05-Feb-06	04-Apr-06
-	Project Authorization	05-Apr-06	6/31/2006

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter 7. Special Study Cost Estimate

Basis For The Cost Estimate

The feasibility cost estimate is based upon a summation of the costs that were identified for the individual tasks in detailed scopes of work that are included in Enclosure C – Detailed Scopes of Work. Study cost estimates include allowances for inflation so that the County of Los Angeles is fully aware of its financial commitment.

Appropriate contingencies and contingency management are included to adequately deal with the uncertainty in the elements of the study. Experience has shown that approximately 20% of the study costs should be reserved for activities following the release of the draft report. Contingencies in the amounts required to cover the costs of these activities have been added to the cost estimate.

Costs for Federal and Non-Federal Activities

The County of Los Angeles must contribute 50% of the cost of the study during the period of the study. The entire Non-Federal share may be made through the provision of services, materials, supplies or other in-kind services necessary to complete the study and prepare the feasibility report. The following special study cost estimate includes credit for work that is to be accomplished by the County of Los Angeles.

Summary of Costs

WBS#	Description	Federal Cost	Non-Fed In-Kind	Total Cost
JAA00	Fees - Surveys and Mapping except Real Estate			\$1,738,000
JAB00	Fees - Coastal Studies/Report			\$1,467,000
JAC00	Fees - Geotechnical Studies/Report			\$575,000
JAED0	Fees - Engineering and Design Analysis/Report			\$600,000
JB000	Fees - Socioeconomic Studies			\$48,000
JC000	Fees - Real Estate Analysis/Report			\$0
JD000	Fees - Environmental Studies/Report (Except USF&WL)			\$70,000
JED00	Fees - Fish and Wildlife Coordination Act Report			\$25,000
JF000	Fees - HTRW/Studies/Report			\$0
JG000	Fees - Cultural Resources Studies/Report			\$60,000
JH000	Fees - Cost Estimates			\$0
JIC00	Fees - Public Involvement Documents			\$108,000
JUC00	Fees - Plan Formulation and Evaluation			\$120,000
JL000	Fees - Final Report Documentation			\$102,000
JLD00	Fees - Technical Review Documents			\$102,000
JMD00	Fees - Washington Level Report Approval (Review Support)			\$60,000
JPA00	Project Management and Budget Documents			\$168,000
JPB00	Supervision and Administration			\$0
JPC00	Contingencies			\$0
L0000	Project Management Plan (PMP)			\$0
Q0000	PED Cost Sharing Agreement			\$0
Totals of Federal and Non-Federal Work		\$3,924,750	\$1,308,250	\$5,233,000
Adjustment for Required Non-Federal Cash		-\$1,308,250	\$1,308,250	-
Total Federal and Non-Federal Costs		\$2,616,500	\$2,616,500	\$5,233,000

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter 8. Quality Control Plan

Quality Control Plan Objective

The quality control objective is to achieve special study phase documents and services that meet or exceed customer requirements, and are consistent with Corps of Engineers policies and regulations.

Guidelines Followed For Technical Review

The guidelines for independent technical review are set forth in the South Pacific Division Quality Management Plan, and in the corresponding Los Angeles District Quality Management Plan.

Los Angeles County Shoreline Special Study Team

Organization/Function	Name/Title	Address	Telephone
Planning Division Coastal Studies Group	Susie Ming Coastal Planner	P.O. Box 532711 Los Angeles CA 90053-2325	213/452-3825
Engineering Division Coastal Engineering Sect.	Arthur T. Shak Coastal Engineer	P.O. Box 532711 Los Angeles CA 90053-2325	213/452-3670
Planning Division Ecosystem Planning Sect	Larry Smith Environmental Manager	P.O. Box 532711 Los Angeles CA 90053-2325	213/452-3846
Planning Div, Economics & Social Analysis Group	Michael Green Economist	P.O. Box 532711 Los Angeles CA 90053-2325	213/452-3827
Programs & Project Mgmt Div, Project Mgmt Br	Cecilia Morgan Program Manager	P.O. Box 532711 Los Angeles CA 90053-2325	213/452-4023
Engineering Division Geotechnical Branch.	Jack Ferguson Geologist	P.O. Box 532711 Los Angeles CA 90053-2325	213/452-3580

Los Angeles County Shoreline Special Study Team Technical Review Team

Organization/Function	Name/Title	Experience
Engineering Division Coastal Engineering Sect.	Jane F. Grandon Team Leader	
Engineering Division Coastal Engineering Sect.	Arthur T. Shak Coastal Engineer	

Documents to be Reviewed and Schedule For Review Activities

All of the products of the tasks listed in the detailed scopes of work in Enclosure C – Detailed Scopes of Work, will be subject to independent technical review. Seamless Single Discipline Review will be accomplished prior to the release of materials to other members of the study team or integrated into the overall study. Section chiefs shall be responsible for accuracy of the computations through design checks and other internal procedures, prior to the independent technical review.

Independent product review will occur prior to major decision points in the planning process at the CESPDP milestones so that the technical results can be relied upon in setting the course for further study. These products would include documentation for the CESPDP mandatory milestone conferences (F3 & F4), HQUSACE issue resolution conferences (AFB & FRC) and the draft and final reports. These products shall be essentially complete before review is undertaken. Since this quality control will have occurred prior to each milestone conference, the conference is free to address critical outstanding issues and set direction for the next step of the study, since a firm technical basis for making decisions will have already been established. In general, the independent technical review will be initiated at least two weeks prior to a CESPDP mandatory milestone conference and at least two weeks prior to the submission of documentation for a HQUSACE issue resolution conference.

For products that are developed under contract, the contractor will be responsible for quality control through an independent technical review. Quality assurance of the contractor's quality control will be the responsibility of the Los Angeles District.

Deviations from the Approved Quality Management Plan

The following deviations from the approved quality management plan have been approved by the South Pacific Division:

******List of deviations will be provided by the Los Angeles District******

Cost Estimate for Quality Management

The costs for conducting the independent technical review are included in the individual scopes of work that are included in Enclosure C – Detailed Scopes of Work. Quality management activities of Branch and Division Chiefs are included in Supervision and Administration. The total cost for quality management is approximately \$250,000, which is approximately 5% of the study cost estimate. Of this amount, \$85,000 is included in parent task JLD00 and \$165,000 is included in other parent tasks.

PMP Quality Certification

The Chief, Planning Division has certified that 1) the independent technical review process for this PMP has been completed, 2) all issues have been addressed, 3) the streamlining initiatives proposed in this PMP will result in a technically adequate product, and 4) appropriate quality control plan requirements have been adequately incorporated into this PMP. The signed certification is included as Enclosure D.

Special Study Certification

The documentation of the independent technical review shall be included with the submission of the reports to CESP. Documentation of the independent technical review shall be accompanied by a certification, indicating that the independent technical review process has been completed and that all technical issues have been resolved. The certification requirement applies to all documentation that will be forwarded to either CESP or HQUSACE for review or approval. The Chief, Planning Division will certify the pre-conference documentation for the HQUSACE Issue Resolution Conferences and the Draft Special Study Report. The Final Special Study Report, to include the District Commander's signed recommendation, will be certified by the District Commander. This certification will follow the example that is included as Appendix H of the CESP Quality Management Plan and will be signed by the Chief, Planning Division and the District Commander.

**Los Angeles County Shoreline Special Study
Project Management Plan**

Chapter 9. Identification of Procedures and Criteria

Evolution Of The PMP

The Project Management Plan describes all activities from the initial tasks of the special study through the preparation of the final special study report, the Project Management Plan and PED cost-sharing agreement, and the Los Angeles District's support during the Washington-level review. As the PMP is based primarily on existing information, it will be subject to scope changes as the technical picture unfolds. Because of the limited evaluations during the reconnaissance phase study, the PMP will include significantly more uncertainty and must make appropriate allowances. As an example, this PMP assumes the requirement for an Environmental Impact Statement, because of the limited environmental evaluations conducted in the reconnaissance phase.

Use of the PMP

The current PMP, including the documentation of agreements on changes to the conduct of the study, will be addressed at each of the CESPDP milestone conferences and at the formal Issue Resolution Conferences with HQUSACE, including the Alternative Formulation Briefing and Feasibility Review Conference.

The Planning Process

The Water Resource Council's Principles and Guidelines is the basic planning guidance, which establishes a six-step planning process. This process is a conceptual planning sequence for developing solutions to water resource problems and opportunities. The Planning Manual and Planning Primer, both published by the Corps of Engineers' Institute for Water Resources, provide excellent coverage of the planning process. The South Pacific Division also provides training in the six-step process.

Policy

The policies that govern the development of projects are contained in the *Digest of Water Resources Policies and Authorities, EP 1165-2-1*.

Corps of Engineers Regulations

Corps of Engineers regulations are available on the HQUSACE Internet Web Site. The most important of these regulations is *ER 1105-2-100, Planning Guidance*. Policy compliance review is addressed in *EC 1165-2-203, Technical and Policy Compliance Review*, and, quality control is covered in the *CESPD Quality Management Plan, CESPD R 1110-1-8*. The review of the special study products will be accomplished with the review checklist provided in *EC 1165-2-203 as Appendix B, Policy Compliance Review Considerations*.

Processing Requirements

In addition to *ER 1105-2-100*, the South Pacific Division has provided additional guidance on the processing requirements for each of the milestone submittals. This guidance is contained in *CESPD-ET-P Memorandum, Processing of Planning Reports in the South Pacific Division*, dated June 5, 2000.

Chapter 10. Public Involvement and Coordination

Major Milestones

Two of the milestones in the CESPDP milestone system have been established specifically for the purpose of providing public forums for public review and to receive public comment and input. The first of these is the initial public workshop. This workshop is an opportunity to present the study to the public, obtain input and public opinions, and fulfill NEPA scoping requirements. The second milestone in the system is the final public meeting. Scheduled following the release of the draft report for public review, provides the opportunity to present the findings of the special study and the draft report to the public and receive public comment.

Public Involvement-Coordination Program

Many public laws, executive orders, Federal agency regulations and the Water Resources Council's Principles and Guidelines require that public involvement and coordination be applied to water resources planning activities. The Corps of Engineers (COE) is required to coordinate with State agencies and the Governor or his designated agency, interested and affected agencies at all levels, and public and private groups and individuals. This commitment is to the broadest possible array of publics -- to include any person, group or agency that is not the COE. The importance of public involvement and coordination in COE planning efforts makes it practical to consider that the public includes any individual interested in the study, in effect, anyone not on the study team.

Purposes and Objectives

The purpose of public involvement and coordination is to ensure that Corps of Engineers planning is responsive to the needs and concerns of the public, and to involve all interested parties in the planning decision-making process. Its objectives are 1) to provide information about COE activities and proposed actions to the public; 2) make public desires, needs and concerns available to the decision-makers; 3) provide for adequate interaction with the public before decisions are made, and 4) to adequately account for the views of the public in making decisions. However, these purposes and objectives must be achieved within a framework where the Corps of Engineers cannot relinquish its legislated responsibilities for decision-making.

Public involvement and coordination actions must not only be utilized to inform the public; they must also actively seek public responses in regard to needs, values, ideas for solutions, and, very significantly, reactions to proposed solutions. Public involvement and coordination must be a two-way communications process, and it must provide people from diverse backgrounds and interests with multiple opportunities to ask questions and offer suggestions.

Effective public involvement and coordination are also effective in reducing the probability of, and reduce unnecessary, conflict, and where possible, achieve consensus. Consensus sometimes occurs spontaneously, and in many instances conflict does not appear to be resolvable. Conflict management techniques should be incorporated into public involvement and coordination activities.

Public Involvement Planning

Public Involvement planning will be incorporated as a major and significant part of the overall planning process – it will develop and be implemented as the special study progresses. Public involvement and coordination must be a dynamic process, capable of taking into account changes in the plan formulation process and public attitudes and reactions, and making adjustments to handle these unforeseen occurrences. Every member of the planning team should be prepared to provide input to the public involvement and coordination program, as well as to represent the planning effort in the achievement of public involvement goals.

Representatives of the Non-Federal Sponsor – the County of Los Angeles – are perhaps the most important players in this element of the planning process. They know the study area and the attitudes and issues surrounding the problems and their solution. They also are familiar with the individuals and organizations that are familiar with the study area and the forces surrounding community attitudes and reactions, which are significant to the planning effort.

Another resource that should not be overlooked for participation in public involvement/coordination planning and implementation is the Los Angeles District's Public Affairs Office. They can provide invaluable insight and assistance in the public information effort, which is the important front-end information-out element of any successful public involvement/coordination plan. The Chief of Public Affairs and staff members possess knowledge of the public communications media, which serves the study area, and influences the attitudes and reactions of the affected individuals and organizations with an interest in the study and its outcome. A successful public information effort can vastly influence the attainment of public involvement/coordination program objectives.

Public Involvement-Coordination Elements

All available means of reaching the many publics affected by and interested in the Los Angeles County Shoreline Special Study should be developed and utilized if the Study Team is to be successful in accomplishing the study purposes and objectives. The following listing of available resources and methods should be developed and used as appropriate during the progress of the study:

Public Communications Media. Newspapers, radio and television stations, magazines and newsletters and other media distributed by interested and affected study publics should be used whenever possible to distribute information and serve as a conduit for input and comment. News releases issued whenever appropriate can serve well in informing all affected publics of study activities and progress.

Meetings. There are a variety of meetings that must be effectively utilized in the successful achievement of public involvement/coordination objectives. The most important and visible meetings are the formal public meetings, which are scheduled by directive at the initiation of the special study, and near the end of the study as part of the public review of the draft special study report and the study findings. Public comment and input are vital to finalizing the special study report and completing the study. These meetings include public meetings, open meetings with interest groups, workshops, and any opportunities to distribute information of the study and progress to generate public input.

Publications. Reports, brochures, newsletters and information bulletins can be prepared and distributed at appropriate points throughout the study process. These publications could be distributed after the definition of problems and opportunities, when preliminary alternatives have been formulated, or when the effects or impacts of alternatives have been identified.

Mailing Lists. Mailing lists are listed last on this preliminary itemization of public involvement-coordination elements to emphasize their importance to the program. They should be among the first public involvement actions, because they are key to the successful accomplishment of program objectives, and will be utilized throughout the conduct of the study.

CHAPTER 11. STATEMENT OF CERTIFICATION

**Los Angeles County Shoreline Special Study, Los Angeles, California
Feasibility Study
Project Management Plan
Los Angeles District, Corps of Engineers**

This is to certify that the undersigned have reviewed, and concur in the scope, structure, and cost estimate for the subject study in the amount of \$ 5,233,000 based on 2000 price and salary levels.

Los Angeles District

BRIAN M. MOORE
Deputy District Engineer
(Project Management)

THOMAS D. MCKERCHER
Chief, Contracting Division

ROBERT C. KOPLIN
Chief, Engineering Division

RAYMOND P. MELLARD
Chief, Resource
Management Office

RUTH BAJZA VILLALOBOS
Chief, Planning Division

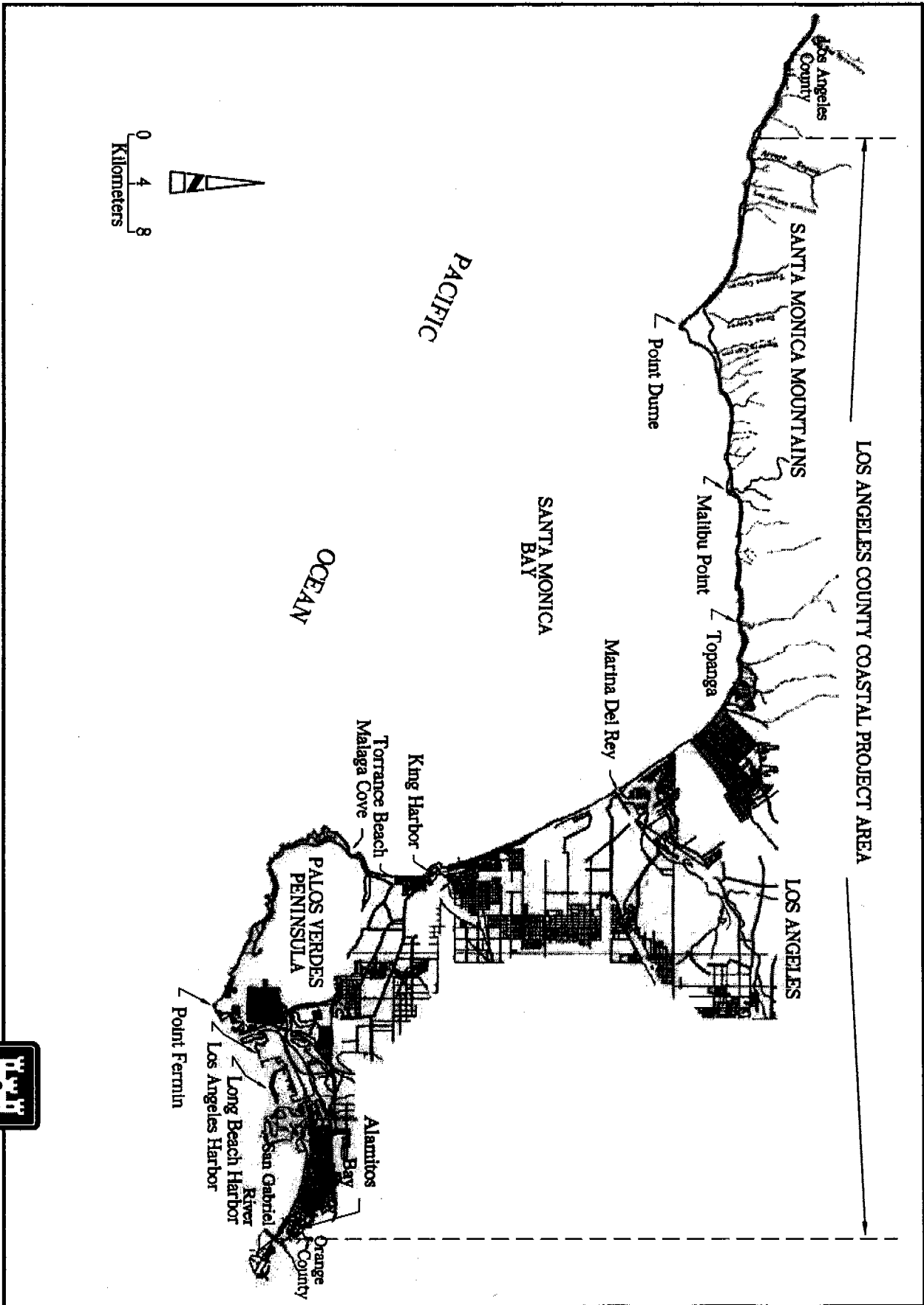
THERESA M. KAPLAN
Chief, Real Estate Division

GEORGE L. BEAMS
Chief, Construction-
Operations Division

STEPHEN E. TEMMEL
Office of Counsel

**Los Angeles County Shoreline Special Study
Project Management Plan**

Enclosure A. Project Area Map



Enclosure A

**Los Angeles County Shoreline Special Study
Project Management Plan**

Enclosure B. CESPDP Milestone System

Special Study Phase

Milestone Number¹ And Name	Milestone Description
100 Initiate Feasibility Phase	CESPD Milestone F1 ² – The date the District receives Federal feasibility study funds.
101 Special Study Public Workshop (F2)	CESPD Milestone F2 ² – This is a Public Meeting/Workshop to inform the public and obtain input, public opinion and fulfill scoping requirements for NEPA purposes.
102 Special Study Scoping Meeting (F3)	CESPD Milestone F3 ² – The Special Study Scoping Meeting with HQUSACE is to address potential changes in the PMP. It will establish without-project conditions and screen preliminary plans.
103 Sand Management Plan Review Conference (F4)	CESPD Milestone F4 ² – The Sand Management Plan Review Conference will evaluate the final plans, reach a consensus that the evaluations are adequate to select a plan and prepare AFB issues.
124 Sand Management Plan Formulation Briefing	CESPD Milestone F4A ² – The Sand Management Plan Formulation Briefing (AFB) is for policy compliance of the proposed plan with HQUSACE to identify actions required to prepare and release the draft report.
145 Public Review of Draft Report	CESPD Milestone F5 ² – Initiation of field level coordination of the draft report with concurrent submittal to HQUSACE through SPD for policy compliance review.
162 Final Public Meeting	CESPD Milestone F6 ² – Date of the final public meeting.
130 Special Study Review Conference	CESPD Milestone F7 ² – Policy compliance review of the draft report with HQUSACE to identify actions that are required to complete the final report.
165 Special Study Report w/NEPA	CESPD Milestone F8 ² – Date of submittal of final report package to DESPD-ET-P, including technical and legal certifications, compliance memorandum and other required documentation.
170 MSC Commander's Public Notice	CESPD Milestone F9 ² – Date of issue of the Division Commanders Public Notice. Congressional notification would occur two days prior. The report and supporting documentation would be forwarded to HQUSACE. This milestone is used as the completion of the special study report in the CMR.
310 Filing of Final EIS/EA	Date that notice appears in the Federal Register. Letters for filing would be furnished by HQUSACE.
330 Chief's Report to ASA (CW)	Date of the signed report of the Chief of Engineers.
320 ROD Signed of FONSI Signed	Date that ROD is signed by the ASA(CW) when forwarded for authorization.
350 President Signs Authorization	Date President signs authorizing legislation.
<p>¹ MIL – Milestone number used in the PROMIS database.</p> <p>² F1 through F9 are the historical designations for the SPD Milestones.</p>	

**Los Angeles County Shoreline Special Study
Project Management Plan**

Enclosure C: Detailed Scopes of Work

Table of Contents

WBS#	Description	Cell Location	Page
	Summary of Costs		C-39
JAA00	Feas - Surveys and Mapping except Real Estate		C-7
JAB00	Feas - Coastal Studies/Report		C-10
JAC00	Feas - Geotechnical Studies/Report		C-16
JAE00	Feas - Engineering and Design Analysis/Report		C-18
JB000	Feas - Socioeconomic Studies		C-21
JC000	Feas - Real Estate Analysis/Report		C-22
JD000	Feas - Environmental Studies/Report (Except USF&WL)		C-22
JE000	Feas - Fish and Wildlife Coordination Act Report		C-23
JF000	Feas - HTRW Studies/Report		C-23
JG000	Feas - Cultural Resources Studies/Report		C-23
JH000	Feas - Cost Estimates		C-24
JI000	Feas - Public Involvement Documents		C-24
JJ000	Feas - Plan Formulation and Evaluation		C-26
JL000	Feas - Final Report Documentation		C-28
JLD00	Feas - Technical Review Documents		C-30
JM000	Feas - Washington Level Report Approval (Review Support)		C-32
JPA00	Project Management and Budget Documents		C-33
JPB00	Supervision and Administration		C-35
JPC00	Contingencies		C-37
L0000	Project Management Plan (PMP)		C-37
Q0000	PED Cost Sharing Agreement		C-38

WBS#	Description
J0000	Feasibility Report (Feas)
J0000	Milestones

General Description of Parent Task: This is a listing of the milestones designed to provide a schedule of expected deliverables throughout the entirety of the feasibility phase of this special study. The milestones are scoped to allow adequate time to properly review all project tasks from an engineering, environmental, and economic standpoint. The detailed listing of milestones and milestone schedule of completions is presented in Chapter 2.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$5,233,000

Task:

Description of Task: This is the date that the district receives Federal feasibility phase study funds; thereby, allowing the initiation of this feasibility type special study.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 0 days

Task:

Description of Task: This milestone has been implemented to conduct a Public Meeting/Workshop to inform the public of the impending special study and management plan. In addition, this forum allows planning managers to obtain public opinion input.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 30 days

Task: Special Study Scoping Meeting (F3)

Description of Task: This is the first Special Study Scoping Meeting with Headquarter, U.S. Army Corps of Engineers (HQUSACE) to address potential changes in the Project Management Plan. In addition, this meeting establishes the existing baseline conditions and the preliminary discussions on screening preliminary plans.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 120 days

Task: Sand Management Plan Review Conference (F4)

Description of Task: This conference is the second South Pacific Division mandatory milestone conference. The purpose of the conference is to screen the final sand management plans in order to reach a cumulative opinion that the evaluations are adequate to select a plan and identify potential issues for the Sand Management Plan Formulation Briefing (AFB).

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 960 days

Task: Sand Management Plan Formulation Briefing – AFB

Description of Task: The Sand Management Plan Formulation Briefing (AFB) will be scheduled. The goal of the AFB process is to obtain Headquarters approval to prepare the draft report and release it for public review concurrent with forwarding the draft to Headquarters. The AFB will be held in accordance with the instructions in Appendix O of ER 1105-2-100. The AFB includes participation by Headquarters and will be chaired by the South Pacific Division's Chief, Planning Division, or the Division's planning program manager on behalf of the Chief, Planning Division. The planning program manager will facilitate informal coordination with Headquarters and the district to finalize the final memorandum for the AFB and will be signed at Headquarters approximately 10 days after the conference. Upon receipt of the signed memorandum from Headquarters, the planning program manager will endorse the memorandum to the district.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 180 days

Task: Draft Special Study Report

Description of Task: This is the initiation of field level coordination of the draft special study report with a concurrent submittal to the HQUSACE through the South Pacific Division (SPD) for policy compliance and review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 180 days

Task: Final Public Meeting

Description of Task: This is the date of the final public meeting to review changes to the original streamlining initiatives and alterations to the project management plan. This task is not required to be included in milestone submissions.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 30 days

Task: Special Study Review Conference

Description of Task: The purpose of the Special Study Review Conference (FRC) is to resolve outstanding policy issues that were raised in the Headquarters review of the draft special study report and to identify actions that are required to complete the final report. The FRC includes participation by Headquarters and will be chaired by the South Pacific Division Chief, Planning Division, or the planning program manager on behalf of the Chief, Planning Division.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 30 days

Task: Special Study Report to SPD

Description of Task: This is the date of submittal of the final report package to the South Pacific Division (CESPD-ET-P). The final report package will include all technical and legal certifications, compliance memorandums, and other required documentations.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 120 days

Task: MSC Commander's Public Notice

Description of Task: This is the date of issue of the Division Commander's Public Notice preceded by Congressional notification, which would occur two days prior. Report and supporting documentation will be forwarded to HQUSACE where it will be utilized as the completed form of the special study report in the Command Management Review (CMR).

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 30 days

Task: Filing of Final EIS/EA

Description of Task: This is the date the notice appears in the Federal Register. Letters for filing will be furnished by the Headquarters Policy Review Branch (CECW-AR). NOT APPLICABLE FOR THIS STUDY AT THIS TIME.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 0 days

Task: Chief's Report to ASA (CW)

Description of Task: Coordination of the signed Chief's report to the Assistant Secretary of Army Civil Works, based on the initial draft and the final special report submitted by the district, will be through the South Pacific Division's planning program manager. When the final Chief's report is received, the planning program manager will provide copies to the district, and the assigned planning program manager will inform other members of the electronic copies of the Chief's report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 60 days

Task: ROD Signed or FONSI Signed

Description of Task: This is the date the Record of Division (ROD) is signed by the Assistant Secretary of the Army for Civil Work (ASA(CW)) and forwarded for authorization.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 10 days

Task: President Signs Authorization

Description of Task: This is the date the president signs the feasibility report authorizing legislation.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	

Duration: 60 days

WBS#	Description
J0000	Feasibility Report (Feas)
JA000	Engineering Appendix

General Description of Parent Task: This parent task includes all engineering related division disciplines work required to achieve the successful completion of the feasibility type special study report. The effort included under this task involves surveys and mapping except real estate, coastal studies/report, geotechnical studies/report, and the engineering design and analysis report.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$4,380,000

WBS#	Description
J0000	Feasibility Report (Feas)
JA000	Engineering Appendix
JAA00	Feas – Surveys and Mapping except Real Estate

General Description of Parent Task: This parent task will be performed to determine, map, and catalog the detailed beach morphology of the Los Angeles County shoreline. The Surveys and Mapping parent task work will be accomplished through beach profile surveys, aerial photography, data reductions of historical survey information, and the Geographic Information System (GIS) integration of both historical and updated beach profile data. The resulting output will be used to evaluate the shoreline and volumetric changes, littoral transport, and sediment budget. At the conclusion of this task all data acquisitions will be integrated into GIS, allowing for the easy assimilation of readily available data in all future investigations involving the Los Angeles County shoreline. A report will be prepared presenting the updated beach profile survey data, aerial photography, and the morphological mapping of the region.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$1,738,000

Task: Surveys and Mapping – Beach Profile Surveys

Description of Task: This task will require the design and implementation of a detailed beach profile survey program. A total of four surveys will be conducted in Years 1 and 3 of this study and will be scheduled to incorporate two summer and two winter profile seasons. The transects, at a minimum, will be designed to correspond to previous surveys of the region conducted in May 1989, January 1990, and June 1990 to facilitate positive correlative comparisons. In an effort to ascertain the most economical and reliable method of beach profile surveying, consideration of alternative techniques will be investigated. Alternatives include the traditional methods, as well as, airborne multi-beam LIDAR bathymetric data acquisition and surveying beach profile surveys from a personal watercraft. The data obtained will be reduced and analyzed for further coastal process investigations.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$710,000

Duration: 1080 days

Task: Surveys and Mapping – Aerial Photography

Description of Task: Aerial photography of the entire Los Angeles County shoreline will be conducted in Years 1 and 3 of this study to provide a base map and a quality visual assessment of the shoreline. In addition, the photographs will provide a reference for the evaluations of the beach profile survey data.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 1080 days

Task: Surveys and Mapping – Historical Survey Data Reductions

Description of Task: The historical surveys conducted in October 1935, November 1946, and October 1953 will be assembled, digitized, and imported into digital 3-D format. These surveys will then be combined with the surveys performed during this study and those conducted in May 1989, January 1990, and June 1990 to provide a detailed database of all available survey data of the region. Upon the successful completion of the task, this information will be easily accessible for future investigations.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$450,000

Duration: 360 days

Task: Surveys and Mapping – GIS Integrations

Description of Task: The database created in the Surveys and Mapping data reductions task will be integrated into GIS to allow for the importation of the information into various computer software packages enabling shoreline and volumetric calculations and plotting. The resulting Los Angeles County shoreline GIS database will be extremely useful in that it will combine all relevant information, in addition to the survey data, within the program. This will allow for the easy retrieval of pertinent information. In addition, updating the GIS database after future investigations will require a minimal effort and will facilitate expedited data analysis.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$378,000

Duration: 360 days

Task: Surveys and Mapping – Draft Report

Description of Task: A draft report outlining the data collections and the results of the surveys and mapping field investigations will be submitted for further review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$100,000

Duration: 180 days

Task:	Surveys and Mapping – Final Report
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Description of Task: Upon the completion of the review of the draft report, the final revision will be made to the document allowing for the preparation of the final report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 60 days

WBS#	Description
J0000	Feasibility Report (Feas)
JA000	Engineering Appendix
JAB00	Feas – Coastal Studies/Report

General Description of Parent Task: This parent task will be performed in order to obtain an understanding of the regional coastal processes; thereby, enabling the formulation of the sediment budget within the Los Angeles County nearshore coastal zone. This task will include a data collections and review encompassing all available pertinent data research and reported findings within the project area, as well as, investigations of the sediment sources, sediment sinks, sediment entrapments, nearshore wave climatology, storm-related coastal flooding, and shoreline and volumetric changes. The calculations for these investigations will be utilized to determine and evaluate the sediment budget for the region. The results of this task will provide the basis for the scope of the Alternative Formulation Briefing (AFB) documentation. A final report will be prepared presenting the results of the coastal studies analysis including concerns voiced during the AFB documentation phase.

Previous Approved	
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Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$1,467,000

Task: Coastal – Data Collection and Review

Description of Task: This task will include the collection and analysis of all previous data research and reported findings pertaining to the study area. The existing data will be reviewed and will eventually determine the scope of field investigations necessary to successfully perform the remaining tasks of the Coastal Studies/Report parent task.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 180 days

Task: Coastal – Sediment Source Investigation

Description of Task: This task will entail investigating sources of sediment that deliver material to the coastal zone of Los Angeles County. These mechanisms include fluvial sediment discharge, sediment yield from bluff erosion, beach nourishment, and onshore migration. The major rivers, creeks, and streams transporting sediment to the open coast will be investigated. Values for the bluff erosion rate and the associated delivery of sediment to the nearshore coastal region will be assessed for the Palos Verdes Peninsula and the western segment of the Santa Monica Mountains. In addition, sediment distributed along the shoreline through beach restoration projects will be computed. Although onshore sediment migration is a difficult quantity to quantify, evaluating all of the beach profile surveys and available bathymetric data may allow for the approximation of this value. The results of this task will be utilized in the detailed sediment budget analysis.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 180 days

Task: Coastal – Sediment Sink Investigations

Description of Task: This task work will entail determining the loss of littoral transport from the system as a result of sediment sinks. Within Los Angeles County there are two submarine canyons, namely the Dume Submarine Canyon and the Redondo Submarine Canyon, responsible for sediment losses. In addition, storm-related seaward cross-shore transport processes, overwash deposits, and inland Aeolian deposits may result in a loss of sediment to the system. Sediment sink investigations involving previous side scan sonar bathymetric data of the submarine canyons, storm damage assessments, and beach profile surveys will be analyzed to quantify the annual sediment reduction within the system. Upon the completion of this task, the quantities for the loss of volume resulting from sediment sinks will be evaluated and integrated into the sediment budget analysis.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 180 days

Task: Coastal – Sediment Entrapment Investigations

Description of Task: This task work will entail analyzing the accumulation of sediment adjacent to both natural and artificial structures that effectively impedes the progression of the alongshore sediment transport. In Los Angeles County there are several structures that effectively trap a proportion of the alongshore sediment transport; thereby, resulting in eroded downdrift beaches. These include the natural retention structures in Malibu and Palos Verdes, the Santa Monica Breakwater, the Venice Breakwater, the Marina Del Rey Jetties, the Chevron Groin, the King Harbor Breakwater, the Los Angeles Harbor Breakwater, and Long Beach Harbor. This task will determine the volumes and percentages of the accreted littoral transport from the amount bypassed around or through the structure. The resulting littoral transport rates will be added to the formulation of the sediment budget.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 180 days

Task:	Coastal – Nearshore Wave Climatology Investigations
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Description of Task: This task work will entail investigating the nearshore wave climate driving the alongshore sediment transport throughout Los Angeles County. Wave climate information will provide a basic understanding of the oceanographic characteristics of the nearshore coastal region. Wave information taken from various buoy locations offshore will be analyzed to statistically determine the deepwater wave characteristics, namely wave height, period, and angle of incidence. Two nearshore wave gages will be deployed in strategically placed locations within Santa Monica Bay for two years to capture two consecutive cycles of the entire annual wave rose. Utilizing the resulting data, numerical wave transformation models will be instituted to aid in the calculations of nearshore wave characteristics. The wave induced currents, driving the alongshore and cross-shore sediment transport, will eventually aid in the development of a shoreline response model.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$712,000

Duration: 360 days

Task:	Coastal – Storm-Related Coastal Flooding Analysis
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Description of Task: This task work will be beneficial in determining the amount of wave runup associated with storm events of varying return periods. The numerical model SBEACH will be employed to determine the storm related eroded profile. Once the eroded profile is determined for a specific storm magnitude, wave runup calculations will be performed. The information obtained from this task will be imported into the shoreline response model and will eventually aid in establishing a regional sediment management plan.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$100,000

Duration: 180 days

Task: Coastal – Shoreline and Volumetric Changes Evaluations

Description of Task: The evaluations for the shoreline and volumetric changes throughout Los Angeles County will form the basis for the regional sediment management plan. The beach profile surveys will be analyzed and imported into the GENESIS numerical model to determine the future shoreline evolution and the associated volumetric deficiencies or accumulations along the coastal zone. This task will effectively identify areas or reaches of concern and will determine the volume of sediment deficit exhibited by each reach. In addition to erosion prone areas, zones of accretion will also be identified. This information will ultimately form the basis for the determination of the Los Angeles County sediment budget.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$180,000

Duration: 360 days

Task: Coastal – Sediment Budget Analysis

Description of Task: All data acquisitions and calculations will be assimilated and analyzed within this task to determine the entire sediment budget for Los Angeles County. The county will be separated into three preexisting littoral cells, namely the Santa Monica Cell, the Palos Verdes Mini Littoral Cells, and the San Pedro Cell. Within these cells, sub reaches will be identified based on barriers to littoral transport, where the flow of sediment is impeded, resulting in a known sediment transport rate. For each sub cell inflow and outflow of sediment in the alongshore and cross-shore direction will be determined. The law of conservation of sediment, which states that the amount of sediment entering into the system must be balanced by the amount of sediment remaining and leaving the system, will be maintained for each sub cell. Based on the sediment budget analysis, erosion prone sub reaches will be clearly identified and the values of the sediment transport rate deficiencies will aid in the formulation of a regional sediment management plan.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$75,000

Duration: 180 days

Task: Coastal – AFB Documentation

Description of Task: The results of the Coastal Studies/Report parent task will be discussed formally with the federal and the County of Los Angeles to evaluate the findings of the task and to provide a working dialog to streamline the results presented in the draft report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 30 days

Task: Coastal – Draft Report

Description of Task: The data and resultant analysis obtained in conjunction with AFB coordination will be presented in a draft report outlining the findings of each coastal studies task. The report will then be submitted for further review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$100,000

Duration: 120 days

Task: Coastal – Final Report

Description of Task: Upon the completion of the review of the draft report, final adjustments will be made to the document allowing for the preparation of the final report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JA000	Engineering Appendix
JAC00	Feas – Geotechnical Studies/Report

General Description of Parent Task: The work conducted in this parent task will include the review of all existing available geotechnical data. Since the primary deliverable resulting from this study is a regional sediment management plan for Los Angeles County, limited geotechnical studies are required. The minimal effort geotechnical investigations that will be performed include the examination of the Palos Verdes and western Santa Monica sea cliffs and the assessment of the potential opportunistic foreshore berm sands. These geotechnical findings will provide the basis for the scope of the Alternative Formulation Briefing (AFB) documentation. A final report will be prepared presenting the results of the geotechnical studies analysis including concerns voiced during the AFB documentation phase.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$575,000

Task: Geotech – Geotechnical Seacliff Studies

Description of Task: Seacliff morphological investigations will be performed to quantify the retreat rate of the seacliffs and the associated influx of sediment into the coastal littoral system. This will be accomplished through the review of previous data collection and will be supplemented by limited field investigations to map the existing seacliff positions. Once documented this information can be utilized for future investigations enabling updated assessments of the seacliff retreat rates.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$125,000

Duration: 240 days

Task: Geotech – Opportunistic Sand Source Investigation

Description of Task: In lieu of the implementation of the proposed opportunistic foreshore berm pilot project, geotechnical sand source investigations will be conducted. The scope of these investigations will be limited to sediment sampling to determine the grain size distribution of the material to be placed on the foreshore. In addition, sediment sampling will be conducted at the receiver site as well. The purpose of the proposed pilot project is to determine and document the average background turbidity levels in the region. These levels will then be used as a baseline indicator during the implementation of future beach restoration projects.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$315,000

Duration: 1080 days

Task: Geotech – AFB Documentation

Description of Task: The results of the Geotechnical Studies/Report parent task will be discussed formally with the federal and the County of Los Angeles to evaluate the findings of the task and to provide a working dialog to streamline the results presented in the draft report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$25,000

Duration: 30 days

Task: Geotech – Draft Report

Description of Task: The data and resultant analysis obtained in conjunction with AFB coordination will be presented in a draft report outlining the findings of each geotechnical studies task. The report will then be submitted for further review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$80,000

Duration: 90 days

Task:	Geotech – Final Report
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Description of Task: Upon the completion of the review of the draft report, final adjustments will be made to the document allowing for the preparation of the final report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$30,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JA000	Engineering Appendix
JAE00	Feas – Engineering and Design Analysis Report

General Description of Parent Task: This parent task work includes the design and engineering evaluations of the plan alternative formulation for the opportunistic foreshore berm pilot project and the regional sediment management plan. This will consist of the review of existing baseline conditions including coastal hydrodynamics, littoral processes, storm-related coastal flooding, shoreline and volumetric changes, and the sediment budget analysis outlined during the coastal studies parent task. The work will include field investigations and coordination with the County of Los Angeles regarding design, management, and monitoring considerations and will be attended to in the AFB documentation. A final report will be prepared presenting the results of the engineering and design analysis phase including concerns voiced during the AFB documentation.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$600,000

Task:	Engr & Design – Implementation of Opportunistic Foreshore Berm Pilot Project
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Description of Task: In lieu of the availability of a viable sand source, the foreshore berm opportunistic pilot project will be implemented. The alternative plans for implementation include the retrieval of dredged sediment from flood control debris basins or the removal of landslide debris from the Pacific Coast Highway. Alternatives for the placement technique of the material will be evaluated. The most economically and environmentally feasible alternative will be chosen for implementing the pilot project. Turbidity testing will be conducted and documented during both pre and post construction.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$100,000

Duration: 1080 days

Task: Engr & Design – Monitoring of Opportunistic Foreshore Berm Pilot Project

Description of Task: The engineering and design alternatives for the monitoring of the foreshore berm opportunistic pilot project will be subjected to a rigorous engineering and environmental evaluation to determine the efficacy of various testing locations and methods. The results of this task will be presented in the special study report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$150,000

Duration: 1080

Task: Engr & Design – Development of a Regional Sediment Management Plan

Description of Task: Upon the review of the findings of the Coastal Studies parent task, a regional sediment management plan will be developed for the entire Los Angeles County shoreline. Alternative management plan formulations will be subjected to a detailed coastal engineering evaluation to assess the potential expected benefits. The regional sediment management plan will be thoroughly documented in the special study report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$225,000

Duration: 360 days

Task: Engr & Design – AFB Documentation

Description of Task: The results of the Engineering and Design Analysis Report parent task will be discussed formally with the federal and the County of Los Angeles to evaluate the findings of the task and to provide a working dialog to streamline the results presented in the draft report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$25,000

Duration: 30 days

Task: Engr & Design – Draft Report

Description of Task: The data and resultant analysis obtained in conjunction with AFB coordination will be presented in a draft report outlining the findings of each engineering and design task. The report will then be submitted for further review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$75,000

Duration: 90 days

Task: Engr & Design – Final Report

Description of Task: Upon the completion of the review of the draft report, final adjustments will be made to the document allowing for the preparation of the final report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$25,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JB000	Feas – Socioeconomic Studies

General Description of Parent Task: The socioeconomic studies parent task will include the determination of the without project existing baseline conditions associated with maintenance costs resulting from storm induced damages to public and private facilities and roadways. Since the main deliverable of this study is the regional sediment management plan and not a suggested recommended project, the benefit-to-cost ratio for various sand management plan alternatives does not need to be conducted at this time. The information obtained through the evaluation of storm damages will be cataloged and made available for the future coastal project that will in all likelihood result from the findings of this study. A final report will be prepared presenting the results of the socioeconomic studies analysis including concerns voiced during the AFB documentation phase.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$48,000

Task: Socioeconomic – Existing Baseline Conditions

Description of Task: This work will include determining the expenses, under the existing baseline conditions, incurred to the Local Coastal Municipalities, the County of Los Angeles, and private residences within the project area.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$25,000

Duration: 90 days

Task: Socioeconomic – Draft Report

Description of Task: The data and resultant analysis obtained in conjunction with AFB coordination will be presented in a draft report outlining the findings of the socioeconomic parent task. The report will then be submitted for further review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$15,000

Duration: 60 days

Task: Socioeconomic – Final Report

Description of Task: Upon the completion of the review of the draft report, final adjustments will be made to the document allowing for the preparation of the final report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$8,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JC000	Feas – Real Estate Analysis/Report

General Description of Parent Task: Not Applicable At This Time.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

WBS#	Description
J0000	Feasibility Report (Feas)
JD000	Feas - Environmental Studies/Report (Except USF&WL)

General Description of Parent Task: Assess biological resources in the study area, description of existing conditions, surveys, and initial agency coordination. Water quality monitoring of foreshore berm pilot project.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$70,000

Duration: 190 days

WBS#	Description
J0000	Feasibility Report (Feas)
JE000	Feas – Fish and Wildlife Coordination Act Report

General Description of Parent Task: Describe existing biological environment and discuss any threatened and/or endangered species issues.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$25,000

Duration: 180 days

WBS#	Description
J0000	Feasibility Report (Feas)
JF000	Feas – Hazardous, Toxic, Radioactive Waste Studies/Report

General Description of Parent Task: Not Applicable At This Time.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

WBS#	Description
J0000	Feasibility Report (Feas)
JG000	Feas – Cultural Resources Studies/Report

General Description of Parent Task: Conduct record and literature search of the study area to determine if any cultural resources are located within the study area. Prepare necessary correspondence with SHPO.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$50,000

Duration: 180 days

WBS#	Description
J0000	Feasibility Report (Feas)
JH000	Feas – Cost Estimates

General Description of Parent Task: Not Applicable At This Time.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

WBS#	Description
J0000	Feasibility Report (Feas)
JI000	Feas – Public Involvement Documents

General Description of Parent Task: The Public Involvement Documents task will include developing a mailing list of all public and private interests, including Federal and State clearinghouses, who will be kept informed of study progress and results. A public workshop; in addition to, a final public meeting on the draft report will be conducted. Work required for public involvement activities will include arranging and hosting the public workshop and outreach sessions and preparing follow-up documentation.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$108,000

Task: Initial Public Meeting/NEPA Scoping

Description of Task: This is the first public meeting designed to inform the public of the special study specifics. Any initial public concerns regarding the study will be documented and addressed in a timely fashion.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$24,000

Duration: 120 days

Task: Public Workshops in Support of Plan Selection

Description of Task: The purpose of the public workshop is to solicit input concerning study scope, local interests and desires, and the streamlining of concerns to be addressed in the report. Additionally, it is expected that a separate meeting will be held with interested Federal, State, and local agencies, including an open workshop for other interested parties.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$36,000

Duration: 60 days

Task: Public Involvement Support to AFB

Description of Task: Decisions and clarifications discussed during the Alternative Formulations Briefing will be made public allowing for concerned party input and to ensure public involvement support.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$12,000

Duration: 30 days

Task: Final Public Meeting

Description of Task: The final public meeting will provide the public and organizations an opportunity to comment on the study findings included in the draft report. The District will present results of the study, conclusions, and recommendations to the public at a formal public meeting. The meeting will include opportunities for all attendees to present questions, concerns, and opinions regarding the study results, and allow interests the ability to interchange information with the District and local sponsor representatives regarding potential concerns associated with the proposed recommendations. A transcript of the meeting will be prepared and a summary will be developed to be included as part of the study document.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 30 days

Task:	Public Involvement Support to FRC
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Description of Task: Decisions and clarifications discussed during the Feasibility Review Conference will be made public allowing for concerned party input and to ensure public involvement support.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JJ000	Feas – Plan Formulation and Evaluation

General Description of Parent Task: The Plan Formulation and Evaluation parent task includes refining information on the conditions of the present and future resources, further defining related problems and needs, establishing planning objectives, and developing, reviewing, and refining a regional sand management plan. The sand management plan will be formulated from a variety of improvement and stabilization measures and will display a full array of opportunities.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$120,000

Task:	Plan Formulation and Evaluation of the Opportunistic Pilot Project and a Sand Management Plan
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Description of Task: The plan formulation and evaluation of the opportunistic pilot project will be conducted to determine the suitability of the plan alternatives from an engineering, environmental, economic, and public best interest standpoint. These evaluations will be analyzed and streamlined to determine a recommended plan alternative. The same evaluation process will be carried out for a proposed regional sand management plan.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$72,000

Duration: 1080 days

Task: Plan Formulation and Evaluation – AFB Documentation

Description of Task: The results of the Plan Formulation and Evaluation parent task will be discussed formally with the federal and the County of Los Angeles to evaluate the findings and to determine the feasibility of each alternative for the opportunistic pilot project and a proposed regional sand management plan.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$6,000

Duration: 30 days

Task: Plan Formulation and Evaluation – Draft Report

Description of Task: This task will entail the first submission of the Plan Formulation and Evaluation Report. The draft report will be circulated to allow the State and Federal agencies and interested organizations and individuals the ability to provide additional comments.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$24,000

Duration: 90 days

Task: Plan Formulation and Evaluation – Final Report

Description of Task: Comments received on the draft Plan Formulation and Evaluation Report will be addressed, and revisions will be made in accordance with Federal and State law, allowing for the preparation of the final report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$12,000

Duration: 30 days

Task:	Plan Formulation and Evaluation – Support to Division Commander’s Notice
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Description of Task: Comments received on the draft Plan Formulation and Evaluation Report, and revisions made in response will be described and incorporated as appropriate into the Division Commander’s Notice.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$6,000

Duration: 10 days

WBS#	Description
J0000	Feasibility Report (Feas)
JL000	Feas – Final Report Documentation

General Description of Parent Task: The Final Report Documentation parent task will include all work necessary to produce and distribute the final feasibility type special study report and supporting documents. This includes addressing all required actions as contained in the Feasibility Review Conference (FRC) Project Guidance Memorandum (PGM), and comments received from public review of the draft report. Tasks also include all work items necessary to support the review process of the final report by the South Pacific Division, Headquarters, and USACE through forwarding of the final report by the Assistant Secretary of the Army for Civil Works (ASA-CW) to the Office of Management and the Budget (OMB) and eventually to Congress. These tasks include providing copies of the report for State and Agency Review, answering comments, attending review meetings, and revising the report as necessary.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$102,000

Task:	Reproduction and Distribution of F3 Documentation
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Description of Task: This task will entail the reproduction and distribution of the F3 milestone report. The F3 documentation will provide a description of oceanographic and coastal processes conditions within the study area, and any potential problems and needs.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 60 days

Task: | Reproduction and Distribution of F4 Documentation

Description of Task: This task will entail the reproduction and distribution of the F4 milestone report. The F4 documentation will present the full alternative management plan formulations and the tentatively selected sand management plan. The F4 report will provide the basis for the Alternative Formulation Briefing (AFB).

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 60 days

Task: | Reproduction and Distribution of AFB Documentation

Description of Task: This task will entail the reproduction and distribution of the Alternative Formulation Briefing (AFB) milestone report. The AFB Project Guidance Memorandum (PGM) will determine the actions needed to allow the completion of the draft report for public review.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$12,000

Duration: 30 days

Task: | Reproduction and Distribution of Draft Report

Description of Task: This task will entail the reproduction and distribution of the Draft Report. The draft report documentation will address the required actions identified in the AFB PGM in finalizing the draft report. The draft report will be reproduced and sent to the South Pacific Division, HQUSACE, and the Office of the Assistant Secretary of the Army for Civil Works representing the basis for a Feasibility Review Conference (FRC) to address any final issues or questions regarding the completion of the study recommendations for the final report. A FRC PGM will be completed by HQUSACE to identify the required actions needed to complete the final special study report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$36,000

Duration: 60 days

Task:	Reproduction and Distribution of Final Report
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Description of Task: This task will entail the reproduction and distribution of the Final Report. This includes addressing all required actions as contained in the FRC PGM, and comments received from public review of the draft report. Tasks also include all work items necessary to support the review process of the final report by the South Pacific Division, Headquarters, and USACE through forwarding of the final report by the Assistant Secretary of the Army for Civil Works (ASA-CW) to the Office of Management and the Budget (OMB) and eventually to Congress. These tasks include providing copies of the report for State and Agency Review, answering comments, attending review meetings, and revising the report as necessary.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JL000	Feas – Final Report Documentation
JLD00	Feas – Technical Review Documents

General Description of Parent Task: This task involves the review documents prepared by the members of the Technical Review Team as required by various study milestones.

Previous Approved	
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Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$102,000

Task:	Independent Technical Review – F3 Documentation
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Description of Task: This task work documents the findings of the Review Team prepared after review of the F3 report for the Special Study Scoping Meeting.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 60 days

Task: Independent Technical Review – F4 Documentation

Description of Task: This task work documents the findings of the Review Team prepared after review of the F4 report for the Sand Management Plan Review Conference.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 60 days

Task: Independent Technical Review – AFB Documentation

Description of Task: This task work documents the findings of the Review Team prepared after review of Plan Formulation Reports for the Alternative Formulation Briefing.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$12,000

Duration: 30 days

Task: Independent Technical Review – Draft Report

Description of Task: This task work documents the findings of the Review Team prepared as a result of the formal review of the Draft Special Study Report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$36,000

Duration: 60 days

Task: Independent Technical Review – Final Report

Description of Task: This task work documents the findings of the Review Team prepared after formal review of the Final Special Study Report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JM000	Feas – Washington Level Report Approval (Review Support)

General Description of Parent Task: The Washington Level Report Approval task involves the preparation and distribution of the draft special study report and support to the Washington Level Review effort.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$60,000

WBS#	Description
J0000	Feasibility Report (Feas)
JP000	Feas – Management Documents

General Description of Parent Task: This task work includes the preparation of the report documenting the process and findings of the feasibility type special study.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$168,000

WBS#	Description
J0000	Feasibility Report (Feas)
JP000	Management Documents
JPA00	Project Management and Budget Documents

General Description of Parent Task: The Project Management and Budget Documents parent task is required by the Program Development Office for preparation of budget requirements and monitoring funds. The project manager is responsible for managing the overall study cost and schedule through the use of the PRB system; preparation of present and future budget year submissions; coordination with the non-Federal sponsor; and the preparation of the Project Management Plan presenting the Federal and non-Federal requirements, costs, and schedule required for implementation of the recommended plan. The Corps project manager with assistance by the non-Federal project manager will monitor expenditures, keep the PMP current, prepare project management reports, the Schedule And Cost Charge Request (SACCR) as needed, and report study status and issues to the District Engineer. The project management structure will continue into the pre-construction and construction engineering and design phases.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$168,000

Task: Programs and Project Management to Support F3 Milestone

Description of Task: This work includes the tasks involved in Program and Project Management Division (PPMD) support to the Feasibility Special Study Scoping Meeting.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$30,000

Duration: 150 days

Task: Programs and Project Management to Support F4 Milestone

Description of Task: This work includes the tasks involved in PPMD support to the Alternative Review Conference.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$30,000

Duration: 960 days

Task: Programs and Project Management – AFB Documentation

Description of Task: This work includes the tasks involved in PPMD support to the Alternative Formulation Briefing.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$36,000

Duration: 300 days

Task: Programs and Project Management – Draft Report

Description of Task: This work includes the tasks involved in PPMD support to the preparation and review of the draft feasibility special study report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$48,000

Duration: 300 days

Task: Programs and Project Management – Final Report

Description of Task: This work includes the tasks involved in PPMD support to the preparation and distribution of the final feasibility special study report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$18,000

Duration: 120 days

Task: Programs and Project Management – DE's Notice

Description of Task: This work includes the tasks involved in PPMD support of the review, preparation, and distribution of the District Engineer's (DE's) Notice.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$6,000

Duration: 30 days

WBS#	Description
J0000	Feasibility Report (Feas)
JP000	Feas – Management Documents
JPB00	Supervision and Administration

General Description of Parent Task: The activities involved in the District-wide supervision and administration of tasks involving the conduct of the study and report preparation.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Task: S&A – Planning Division

Description of Task: The activities involved in the supervision and administration of Planning Division tasks involving personnel in the conduct of the study and report preparation.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 1800 days

Task: S&A – Engineering Division

Description of Task: The activities involved in the supervision and administration Engineering Division tasks involving personnel in the conduct of the planning review and report preparation.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 1800 days

Task: S&A – Real Estate Division

Description of Task: The activities involved in the supervision and administration Real Estate Division tasks involving personnel in the conduct of the planning review and report preparation.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 1800 days

Task: S&A – PPMD

Description of Task: The activities involved in the supervision and administration PPMD tasks involving personnel in the conduct of the planning review and report preparation.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 1800 days

Task:	S&A – Contracting Division
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Description of Task: The activities involved in the supervision and administration Contracting Division tasks involving personnel in the conduct of the planning review and report preparation.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 1800 days

WBS#	Description
J0000	Feasibility Report (Feas)
JP000	Feas – Management Documents
JPC00	Contingencies

General Description of Parent Task: This task work includes the setting aside of funding and resources for completion of study activities.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

WBS#	Description
L0000	Project Management Plan

General Description of Parent Task: The PMP is an attachment to the Feasibility Cost Sharing Agreement defining the planning process, detailed activities to be accomplished, sets the schedule, and details the costs to the Federal Government to the Non-Federal Sponsor.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Task: PMP – Draft PMP

Description of Task: A product associated with the feasibility study is the Project Management Plan (PMP). The PMP describes the project activities during Pre-Construction Engineering and Design; in addition to, construction phases, and is a basis for the project cost sharing agreement. A draft PMP will be attached to the draft feasibility special study report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 60 days

Task: PMP – Final PMP

Description of Task: This task work includes the completion of a signed and executed final PMP to accompany the Final Feasibility Special Study Report.

Cost Summary

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Duration: 30 days

WBS#	Description
Q0000	PED Cost Sharing Agreement

General Description of Parent Task: This task work includes the Cost Sharing Agreement for the implementation and operation of the proposed project between the Federal Government and the County of Los Angeles.

Previous Approved

Labor		Other Corps		Total Federal	
Non-Labor		Other Agency		Non-Fed In-Kind	
Total District		Contract		Total	\$0

Summary of Costs

WBS#	Description	Federal Cost	Non-Fed In-Kind	Total Cost
JAA00	Feas - Surveys and Mapping except Real Estate			\$1,738,000
JAB00	Feas - Coastal Studies/Report			\$1,467,000
JAC00	Feas - Geotechnical Studies/Report			\$675,000
JAED0	Feas - Engineering and Design Analysis/Report			\$600,000
JB000	Feas - Socioeconomic Studies			\$48,000
JC000	Feas - Real Estate Analysis/Report			\$0
JD000	Feas - Environmental Studies/Report (Except USF&WL)			\$70,000
JE000	Feas - Fish and Wildlife Coordination Act Report			\$25,000
JF000	Feas - HTRW Studies/Report			\$0
JG000	Feas - Cultural Resources Studies/Report			\$60,000
JH000	Feas - Cost Estimates			\$0
JI000	Feas - Public Involvement Documents			\$108,000
JJ000	Feas - Plan Formulation and Evaluation			\$120,000
JK000	Feas - Final Report Documentation			\$102,000
JKD00	Feas - Technical Review Documents			\$102,000
JM000	Feas - Washington Level Report Approval (Review/Support)			\$60,000
JPA00	Project Management and Budget Documents			\$168,000
JPE00	Supervision and Administration			\$0
JPC00	Contingencies			\$0
LO000	Project Management Plan (PMP)			\$0
Q0000	FED Cost Sharing Agreement			\$0
Totals of Federal and Non-Federal Work		\$3,924,750	\$1,308,250	\$5,233,000
Adjustment for Required Non-Federal Cash		-\$1,308,250	\$1,308,250	-
Total Federal and Non-Federal Costs		\$2,616,500	\$2,616,500	\$5,233,000

**CCSTWS, LOS ANGELES COUNTY
STUDY COST BREAKDOWN
BY LOS ANGELES COUNTY FISCAL YEAR
8-Jun-01**

LA COUNTY FISCAL YEAR	Federal and Non-Federal Cash																		TOTAL CASH FED/NEF	TOTAL CASH		
	NEARSHORE & BEACH PROFILE SURVEYS		DIGITIZE HISTORIC DATA & GIS		OCEAN WAVES DATA		COASTAL ANALYSIS & MODELING		GEOTECH INVESTIGATE & MONITOR		ENVR		COASTAL ENGINEERING & DESIGN		BEACH SOCIAL & ECONOMICS		MGMT, PLING, RPTS, RVW & PUBLIC					
	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local				
YR 1 (Jul 01 - Jun 02)	502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	527	250	777
YR 2 (Jul 02 - Jun 03)	200	0	0	0	100	0	0	0	0	75	0	75	0	0	0	0	0	75.75	0	525.75	250	775.75
YR 3 (Jul 03 - Jun 04)	0	0	0	0	160	0	171	0	150	0	14	56	150	0	0	0	0	43	43	517	270	787
YR 4 (Jul 04 - Jun 05)	0	0	0	0	47.5	0	40	0	350	0	0	0	69	81	0	0	0	61.5	61.5	528	270	798
YR 5 (Jul 05 - Jun 06)	0	0	0	0	130	0	0	128	128	50	0	0	197.75	27.25	0	0	0	83	83	518.75	268.25	787
TOTAL (YRS 1-5)	702	0	0	0	437.5	0	711	128	628	137.5	89	56	491.75	103.25	0	0	0	268.25	167.5	2816.50	1308.25	3924.75

LA COUNTY FISCAL YEAR	Non-Federal In-Kind																		TOTAL STUDY COST (CASH \$ IN-KIND)			
	NEARSHORE & BEACH PROFILE SURVEYS		DIGITIZE HISTORIC DATA & GIS		OCEAN WAVES DATA		COASTAL ANALYSIS & MODELING		GEOTECH INVESTIGATE & MONITOR		ENVR		COASTAL ENGINEERING & DESIGN		BEACH SOCIAL & ECONOMICS		MGMT, PLING, RPTS, RVW & PUBLIC					
	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local	Fed	Local				
YR 1 (Jul 01 - Jun 02)	0	0	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	250	250	500
YR 2 (Jul 02 - Jun 03)	0	0	153	0	0	0	0	0	0	0	0	0	0	0	48	0	0	48.25	0	201.25	249.25	450.5
YR 3 (Jul 03 - Jun 04)	222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	272	272	544
YR 4 (Jul 04 - Jun 05)	436	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	486	486	972
YR 5 (Jul 05 - Jun 06)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	102
TOTAL (YRS 1-5)	668	0	378	0	0	0	0	0	0	0	0	0	0	0	48	0	0	224.25	111.5	1508.25	1508.25	3016.5

Los Angeles County Shoreline Special Study
Project Management Plan

Enclosure D. Quality Control Certification

Completion of Quality Control Activities

The District has completed the Project management plan for the Los Angeles County Shoreline Special Study. All quality control activities defined in the generic quality control plan for reconnaissance phase products have been completed. Compliance with clearly established policy principles and procedures, utilizing justified and valid assumptions, has been verified, including whether the PMP meets the needs of the County of Los Angeles and is consistent with the law and existing Corps of Engineer's policy. All issues and concerns resulting from the independent technical review of the PMP have been resolved.

Certification

Certification is hereby given that 1) the independent technical review process for this PMP has been completed, 2) all issues have been addressed, 3) the streamlining initiatives proposed in this PMP will result in a technically adequate product, and 4) appropriate quality control plan requirements have been adequately incorporated into this PMP. In summary, the study may proceed into the special study phase in accordance with this PMP.

Date

Chief, Planning Division

**Los Angeles County Shoreline Special Study
Project Management Plan**

Enclosure E. List of Acronyms

AFB	Alternative Formulation Briefing
ASA (CW)	Assistant Secretary of the Army for Civil Works
CESPD	South Pacific Division (also SPD)
DE	Division Engineer (Division Commander)
EA	Environmental Assessment
EC	Engineering Circular
EIS	Environmental Impact Statement
EP	Engineering Pamphlet
ER	Engineering Regulation
FCSA	Feasibility Cost Sharing Agreement
FONSI	Finding of No Significant Impact
FRC	Feasibility Review Conference
H&H	Hydrology and Hydraulics
HQUSACE	Headquarters, U.S. Army Corps of Engineers
HTRW	Hazardous, Toxic and Radioactive Waste
MSC	Major Subordinate Command
NAS	Network Analysis System
NED	National Economic Development
NEPA	National Environmental Policy Act
OBS	Organizational Breakdown Structure
P&G	Water Resources Council's Principles and Guidelines
PED	Preconstruction Engineering and Design
PMP	Project Management Plan
PPMD	Programs and Project Management Division
PROMIS	Project Management Information System
PMP	Project Management Plan
RAM	Responsibility Assignment Matrix
ROD	Record of Decision
S&A	Supervision and Administration
SPD	South Pacific Division (CESPD)
USF&WL	U.S. Fish and Wildlife Service
WBS	Work Breakdown Structure
WRDA	Water Resources Development Act