



DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
CIVIL WORKS
108 ARMY PENTAGON
WASHINGTON DC 20310-0108

FEB 14 2011

Honorable Barbara Boxer
Chairman
Committee on Environment and Public Works
410 Dirksen Senate Office Building
Washington, D.C. 20510-6175

Dear Chairman Boxer:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the third annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2010.

Table 1 includes all projects/programs currently under construction by the Corps as indicated by funding in FY 2010. Table 2 lists the status of projects that require compensatory mitigation, as well as an estimate of the percentage of the construction and the mitigation that have been completed. Table 3 contains information on consultation on mitigation success with state and Federal resource agencies. In addition, the FY 2012 Budget Press Book accompanies this report and contains a complete list of all the Corps projects included in the FY 2012 President's budget. This information will be made available on the Corps Civil Works internet site concurrent with the release of the President's budget.

If you need additional information regarding the enclosed data, please contact Mr. Doug Lamont, my Deputy for Project Planning and Review at 202-761-0016. I am sending an identical letter to Senator Inhofe.

Very truly yours,

A handwritten signature in cursive script that reads "Jo-Ellen Darcy".

Jo-Ellen Darcy
Assistant Secretary of the Army
(Civil Works)

Enclosures

4 Enclosures

3rd Annual Status Report w/

1. Table 1. USACE Projects Under Construction During Fiscal Year 2010
2. Table 2. Status of Projects with Incomplete Compensatory Mitigation
3. Table 3. Annual Consultation on Success of Mitigation
4. FY 2012 President's Budget for the Civil Works Program



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Honorable James M. Inhofe
Ranking Member
Committee on Environment and Public Works
456 Dirksen Senate Office Building
Washington, D.C. 20510-6175

Dear Senator Inhofe:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the third annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2010.

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Honorable John L. Mica
Chairman
Committee on Transportation and Infrastructure
2165 Rayburn House Office Building
Washington, D.C. 20515

Dear Chairman Mica:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the third annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2010.

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If you need additional information regarding the enclosed data, please contact Mr. Doug Lamont, my Deputy for Project Planning and Review at 202-761-0016. I am sending an identical letter to Representative Rahall.

Very truly yours,

Jo-Ellen Darcy
Assistant Secretary of the Army
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FEB 14 2011

Honorable Nick J. Rahall
Ranking Member
Committee on Transportation and Infrastructure
2163 Rayburn House Office Building
Washington, D.C. 20515

Dear Representative Rahall:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the third annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2010.

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Jo-Ellen Darcy
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**3rd Annual Status Report on
Construction Projects Requiring Mitigation
Under Section 906 of the Water Resources
Development Act of 1986**

as required by Section 2036(b)
Water Resources Development Act of 2007

February 2011

INTRODUCTION

This 3rd Annual Status Report on construction Projects Requiring Mitigation was prepared in response to the requirements of the Water Resources Development Act of 2007. For this 3rd Annual Report, the Corps of Engineers used a newly developed database which will allow more efficient tracking of the Corps mitigation work. It will also facilitate the preparation and presentation of data on mitigation progress in future reports.

Based on the overall information from Table 2 on the percentages of mitigation completed and construction completed, mitigation and construction activities are generally progressing at about the same rate.

TABLE 1 - USACE Projects under Construction during Fiscal Year 2010 - Table 1 lists 322 programs and/or projects that were allotted funds in FY 2010 in the Construction Account or Mississippi River and Tributaries Account. Programs such as the various environmental infrastructure authorities are represented by one line item.

TABLE 2 - Status of Projects with Incomplete Compensatory Mitigation - Table 2 outlines the status of the 82 projects with incomplete compensatory mitigation. Most projects from Table 1 are not listed in Table 2 for a number of reasons, such as the actual construction may not have started, they may not require compensatory mitigation, or the mitigation may be complete. Acres listed under the column heading "Mitigation Total Acres of Land Acquired" are available for use mitigating project impacts through a range of real estate instruments. This may include acres within existing Corps project lands, mitigation banks, lands made available by other agencies, or lands below mean-low tide in coastal areas.

TABLE 3 – Annual Consultation on Success of Mitigation - Table 3 shows the results of the on-going ecological success consultation with federal and state resource agencies for 26 mitigation efforts. In order to initiate the success consultation, the compensatory mitigation construction features must at least in-part be accomplished, and data from the monitoring of the constructed mitigation feature must be available. Mitigation is considered complete when the Division Engineer determines the mitigation is successful based on monitoring results and the results of the consultation with the appropriate agencies regarding mitigation success as required by section 2036 (a)(4) of the Water Resources Development Act of 2007. Table 3 contains consultation information on 26 projects that had monitoring results available in FY 2010. An evaluation of the ecological success to date is also provided.

Eight projects reported last year have met the success criteria and are not included in this year's report. The mitigation measures ranged from the construction of 10 acres of in-lake habitat features at Bluestone Lake, West Virginia to planting a mix of almost 10,000 cottonwood and willows within 81 acres in New Mexico. Four additional projects listed on Table 3 have successfully mitigated for project impacts.

Acronym	Division/District	Acronym	Division/District
LRD	GREAT LAKES AND RIVERS DIVISION	SAD	SOUTH ATLANTIC DIVISION
LRB	BUFFALO	SAC	CHARLESTON
LRC	CHICAGO	SAJ	JACKSONVILLE
LRH	HUNTINGTON	SAM	MOBILE
LRL	LOUISVILLE	SAS	SAVANNAH
LRN	NASHVILLE	SAW	WILMINGTON
LRP	PITTSBURGH	SPD	SOUTH PACIFIC DIVISION
MVD	MISSISSIPPI VALLEY DIVISION	SPA	ALBUQUERQUE
MVK	VICKSBURG	SPK	SACRAMENTO
MVM	MEMPHIS	SPL	LOS ANGELES
MVN	NEW ORLEANS	SPN	SAN FRANCISCO
MVP	ST PAUL DISTRICT	SWD	SOUTHWESTERN DIVISION
MVR	ROCK ISLAND	SWF	FT WORTH
MVS	ST LOUIS	SWG	GALVESTON
NAD	NORTH ATLANTIC DIVISION	SWL	LITTLE ROCK
NAB	BALTIMORE	SWT	TULSA
NAN	NEW YORK		
NAP	PHILADELPHIA		
NWD	NORTHWESTERN DIVISION		
NWK	KANSAS CITY		
NWO	OMAHA		
NWP	PORTLAND		
NWS	SEATTLE		
NWW	WALLA WALLA		
POD	PACIFIC OCEAN DIVISION		
POA	ALASKA		
POH	HONOLULU		

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
LRD	LRB	GREAT LAKES FISHERIES AND ECOSYSTEM RESTORATION, IL, IN, MN, OH & PA
LRD	LRB	NEW YORK STATE CANAL SYSTEM, NY
LRD	LRB	OHIO & NORTH DAKOTA ENVIRONMENTAL INFRASTRUCTURE, OH & ND (SECTION 594)
LRD	LRB	OKLAHOMA BEACH, NY (SECTION 111)
LRD	LRB	PRESQUE ISLE PENINSULA, PA (PERMANENT)
LRD	LRC	CALUMET REGION, IN
LRD	LRC	CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIER, IL
LRD	LRC	COOK COUNTY INFRASTRUCTURE, IL
LRD	LRC	DES PLAINES RIVER, IL
LRD	LRC	INDIANA HARBOR, CONFINED DISPOSAL FACILITY, IN
LRD	LRC	INDIANA SHORELINE EROSION, IN
LRD	LRC	LAKE MICHIGAN WATERFRONT, IN
LRD	LRC	LITTLE CALUMET RIVER, IN
LRD	LRC	MCCOOK AND THORNTON RESERVOIRS, IL
LRD	LRE	GENESEE COUNTY, MI
LRD	LRE	GREEN BAY HARBOR, WI
LRD	LRE	HAMILTON DAM, MI
LRD	LRE	NEGAUNEE, MI
LRD	LRE	NORTHEASTERN MINNESOTA ENVIRONMENTAL INFRASTRUCTURE, MN
LRD	LRE	SAULT STE MARIE (REPLACEMENT LOCK), MI
LRD	LRE	ST. CLAIR RIVER AND LAKE ST. CLAIR, MI
LRD	LRH	BEACH CITY LAKE, OH SEEPAGE CORRECTION REHAB
LRD	LRH	BLUESTONE LAKE, WV
LRD	LRH	BOLIVAR DAM, OH SEEPAGE MAJOR REHAB
LRD	LRH	CENTRAL WEST VIRGINIA ENVIRONMENTAL INFRASTRUCTURE, WV (SECTION 571)
LRD	LRH	DOVER DAM, MUSKINGUM RIVER, OH (DAM SAFETY ASSURANCE)
LRD	LRH	GREENBRIER RIVER BASIN, WV
LRD	LRH	ISLAND CREEK BASIN IN AND AROUND LOGAN, WEST VIRGINIA
LRD	LRH	LEVISA AND TUG FORKS AND UPPER CUMBERLAND RIVER, VA, WV & KY
LRD	LRH	LOWER MUD RIVER, MILTON, WV
LRD	LRH	MARMET LOCK, KANAWHA RIVER, WV
LRD	LRH	MOHAWK DAM, OH SEEPAGE CORRECTION MAJOR REHAB
LRD	LRH	ROBERT C BYRD LOCKS AND DAM, OHIO RIVER, WV & OH
LRD	LRH	SOUTHERN AND EASTERN KENTUCKY ENVIRONMENTAL INFRASTRUCTURE, KY (SECTION 531)
LRD	LRH	SOUTHERN WEST VIRGINIA ENVIRONMENTAL INFRASTRUCTURE, WV (SECTION 340)
LRD	LRH	WINFIELD LOCKS AND DAM, KANAWHA RIVER, WV
LRD	LRL	CECIL M HARDEN LAKE DAM, IN (MAJOR REHAB)

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
LRD	LRL	HOLES CREEK, WEST CARROLLTON, OH
LRD	LRL	INDIANAPOLIS, WHITE RIVER (NORTH), IN
LRD	LRL	MARKLAND LOCKS AND DAM, KY & IN (REHAB)
LRD	LRL	MCALPINE LOCKS AND DAM, OHIO RIVER, KY & IN
LRD	LRL	MT ZION DAM, FULTON CO, IN
LRD	LRL	OHIO RIVER GREENWAY PUBLIC ACCESS, IN
LRD	LRL	OHIO RIVERFRONT, CINCINNATI, OH
LRD	LRL	OLMSTED LOCKS AND DAM, OHIO RIVER, IL & KY
LRD	LRL	PATOKA, MAJOR REHAB REPORT, IN
LRD	LRN	CENTER HILL LAKE, TN
LRD	LRN	CHICKAMAUGA LOCK, TENNESSEE RIVER, TN
LRD	LRN	CUMBERLAND COUNTY WATER SUPPLY, TN
LRD	LRN	KENTUCKY LOCK AND DAM, TENNESSEE RIVER, KY
LRD	LRN	PINHOOK CREEK, HUNTSVILLE, AL
LRD	LRN	WOLF CREEK DAM, LAKE CUMBERLAND, KY
LRD	LRP	BEAVER CREEK RESERVOIR, BEAVER AND SALEM TOWNSHIPS, PA
LRD	LRP	EAST BRANCH CLARION RIVER LAKE, PA
LRD	LRP	EMSWORTH LOCKS AND DAM, OHIO RIVER, PA
LRD	LRP	NORTHERN WEST VIRGINIA ENVIRONMENTAL INFRASTRUCTURE, WV
LRD	LRP	THREE RIVERS WET WEATHER DEMO PROGRAM, PA
LRD	LRP	WEST VIRGINIA AND PENNSYLVANIA FLOOD CONTROL, PA & WV
MVD	MVK	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO & TN
MVD	MVK	J BENNETT JOHNSTON WATERWAY, LA
MVD	MVK	MISSISSIPPI ENVIRONMENTAL INFRASTRUCTURE, MS
MVD	MVK	MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO & TN
MVD	MVK	RED RIVER BELOW DENISON DAM, LA, AR & TX
MVD	MVK	RED RIVER EMERGENCY BANK PROTECTION, AR & LA
MVD	MVK	YAZOO BASIN, MS ¹
MVD	MVM	BAYOU METO, AR
MVD	MVM	DESOTO COUNTY WASTEWATER TREATMENT, MS
MVD	MVM	GRAND PRAIRIE, AR
MVD	MVM	LOOMIS LANDING, AR
MVD	MVM	ST. FRANCIS BASIN, AR & MO
MVD	MVM	ST. JOHNS BAYOU - NEW MADRID FLOODWAY, MO
MVD	MVN	ASCENSION PARISH ENVIRONMENTAL INFRASTRUCTURE
MVD	MVN	ATCHAFALAYA BASIN, FLOODWAY SYSTEM, LA
MVD	MVN	ATCHAFALAYA BASIN, LA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
MVD	MVN	ATCHAFALAYA BASIN, LA - HURRICANE PROTECTION
MVD	MVN	COMITE RIVER, LA
MVD	MVN	EAST BATON ROUGE PARISH ENVIRONMENTAL INFRASTRUCTURE, LA
MVD	MVN	EAST BATON ROUGE PARISH, LA
MVD	MVN	GRAND ISLE AND VICINITY, LA - HURRICANE PROTECTION PROJECT
MVD	MVN	INNER HARBOR NAVIGATION CANAL LOCK, LA
MVD	MVN	LAKE PONTCHARTRAIN AND VICINITY, LA - HURRICANE PROTECTION
MVD	MVN	LAROSE TO GOLDEN MEADOW, LA (HURRICANE PROTECTION)
MVD	MVN	LIVINGSTON PARISH ENVIRONMENTAL INFRASTRUCTURE
MVD	MVN	MISSISSIPPI DELTA REGION, LA
MVD	MVN	MORGANZA TO THE GULF OF MEXICO, LA - HURRICANE PROTECTION
MVD	MVN	NEW ORLEANS TO VENICE, LA - HURRICANE PROTECTION
MVD	MVN	SOUTHEAST LOUISIANA, LA - HURRICANE PROTECTION
MVD	MVN	WESTBAK AND VICINITY, NEW ORLEANS, LA - HURRICANE PROTECTION PROJECT
MVD	MVP	BRECKENRIDGE, MN
MVD	MVP	GRAND FORKS, ND - EAST GRAND FORKS, MN
MVD	MVP	LOCK AND DAM 3, MISSISSIPPI RIVER, MN (MAJOR REHAB)
MVD	MVP	NORTHERN WISCONSIN ENVIRONMENTAL ASSISTANCE, WI
MVD	MVP	ORWELL LAKE, MN
MVD	MVP	ROSEAU, MN
MVD	MVP	SHEYENNE RIVER, ND
MVD	MVP	UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO & WI
MVD	MVR	DES MOINES AND RACCOON RIVERS, IA
MVD	MVR	DES MOINES RECREATION RIVER AND GREENBELT, IA
MVD	MVR	LOCK AND DAM 11, MISSISSIPPI RIVER, IA (MAJOR REHAB)
MVD	MVR	LOCK AND DAM 12, MISSISSIPPI RIVER, IA (MAJOR REHAB)
MVD	MVR	LOCK AND DAM 19, MISSISSIPPI RIVER, IA (MAJOR REHAB)
MVD	MVS	ALTON TO GALE ORGANIZED LEVEE DISTRICTS, IL & MO
MVD	MVS	BOIS BRULE DRAINAGE AND LEVEE DISTRICT, MISSOURI
MVD	MVS	CAPE GIRARDEAU (FLOODWALL), MO
MVD	MVS	CHAIN OF ROCKS CANAL, MISSISSIPPI RIVER, IL (DEF CORR)
MVD	MVS	CHESTERFIELD, MO
MVD	MVS	EAST ST LOUIS & VICINITY (INTERIOR FLOOD CONTROL), IL
MVD	MVS	EAST ST LOUIS, IL
MVD	MVS	LOCK AND DAM 24, MISSISSIPPI RIVER, IL & MO (MAJOR REHAB)
MVD	MVS	LOCK AND DAM 27, MISSISSIPPI RIVER, IL (MAJOR REHAB)
MVD	MVS	MADISON AND ST. CLAIR COUNTIES, IL

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MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
MVD	MVS	MELVIN PRICE L AND D 2ND LOCK
MVD	MVS	MELVIN PRICE LOCK AND DAM, IL & MO
MVD	MVS	MERAMEC RIVER BASIN, VALLEY PARK LEVEE, MO
MVD	MVS	MISS RIVER BTWN THE OHIO AND MO RIVERS (REG WORKS), MO & IL
MVD	MVS	NUTWOOD DRAINAGE AND LEVEE DISTRICT, IL
MVD	MVS	ST LOUIS FLOOD PROTECTION, MO
MVD	MVS	STE GENEVIEVE, MO
MVD	MVS	WOOD RIVER LEVEE, DEFICIENCY CORRECTION AND RECONSTRUCTION, IL
NAD	NAB	ASSATEAGUE, MD
NAD	NAB	CHESAPEAKE BAY ENV RESTORATION AND PROTECTION, MD, VA & PA
NAD	NAB	LACKAWANNA RIVER, SCRANTON, PA
NAD	NAB	NORTHEAST COUNTIES ENVIRONMENTAL INFRASTRUCTURE
NAD	NAB	POPLAR ISLAND, MD
NAD	NAB	SOUTH CENTRAL PA ENVIRONMENTAL IMPROVEMENT PROGRAM, PA
NAD	NAB	WASHINGTON, DC & VICINITY
NAD	NAB	WYOMING VALLEY, PA (LEVEE RAISING)
NAD	NAE	CAMP ELLIS, SACO, MAINE
NAD	NAE	EDWARD MACDOWELL LAKE, NH
NAD	NAE	MUDDY RIVER, MA
NAD	NAN	ATLANTIC COAST OF NYC, ROCKAWAY INLET TO NORTON POINT, NY
NAD	NAN	BDOB ORCHARD BEACH, BRONX NY
NAD	NAN	BURLINGTON HARBOR BREAKWATER, VT
NAD	NAN	EAST ROCKAWAY INLET TO ROCKAWAY INLET AND JAMAICA BAY, NY
NAD	NAN	FIRE ISLAND INLET TO MONTAUK POINT, NY
NAD	NAN	HACKENSACK MEADOWLANDS,NJ
NAD	NAN	JOSEPH G MINISH HISTORIC WATERFRONT PARK,NJ
NAD	NAN	LAKE CHAMPLAIN WATERSHED INITIATE,VT
NAD	NAN	LONG BEACH ISLAND, NY
NAD	NAN	NEW YORK AND NEW JERSEY HARBOR, NY & NJ
NAD	NAN	NEW YORK CITY WATERSHED, NY
NAD	NAN	PASSAIC RIVER BASIN FLOOD MANAGEMENT,NJ
NAD	NAN	RAMAPO AND MAHWAH RIVERS, MAHWAH, NJ AND SUFFERN, NY
NAD	NAN	RARITAN BAY AND SANDY HOOK BAY(PORT MONMOUTH), NJ
NAD	NAN	RARITAN BAY AND SANDY HOOK BAY, NJ
NAD	NAN	RARITAN RIVER BASIN, GREEN BROOK SUB-BASIN, NJ
NAD	NAN	SANDY HOOK TO BARNEGAT INLET, NJ
NAD	NAO	AIWW, BRIDGES AT DEEP CREEK, VA

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MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
NAD	NAO	CHESAPEAKE BAY OYSTER RECOVERY, MD & VA
NAD	NAO	JAMES RIVER CHANNEL, VA
NAD	NAO	NORFOLK HARBOR AND CHANNELS, CRANEY ISLAND, VA
NAD	NAO	NORFOLK HARBOR AND CHANNELS, VA (DEEPENING)
NAD	NAO	RICHMOND, VA (COMBINED SEWER OVERFLOW)
NAD	NAO	VIRGINIA BEACH, VA (HURRICANE PROTECTION)
NAD	NAP	BARNEGAT INLET TO LITTLE EGG HARBOR INLET, NJ
NAD	NAP	BRIGANTINE INLET TO GREAT EGG INLET (ABSECON ISLAND), NJ
NAD	NAP	BRIGANTINE INLET TO GREAT EGG INLET, BRIGANTINE ISLAND, NJ
NAD	NAP	CAPE MAY INLET TO LOWER TOWNSHIP, NJ
NAD	NAP	DELAWARE BAY COASTLINE, ROOSEVELT INLET TO LEWES BEACH, DE
NAD	NAP	DELAWARE COAST PROTECTION, DE
NAD	NAP	DELAWARE COAST, BETHANY BEACH TO SOUTH BETHANY BEACH
NAD	NAP	DELAWARE COAST, REHOBOTH BEACH TO DEWEY BEACH, DE
NAD	NAP	DELAWARE RIVER MAIN CHANNEL, NJ, PA & DE
NAD	NAP	GREAT EGG HARBOR INLET AND PECK BEACH, NJ
NAD	NAP	GREAT EGG HARBOR INLET TO TOWNSEND INLET, NJ
NAD	NAP	LOWER CAPE MAY MEADOWS, CAPE MAY POINT, NJ
NAD	NAP	SOUTHEASTERN PENNSYLVANIA, PA
NAD	NAP	TOWNSENDS INLET TO CAPE MAY INLET, NJ
NWD	NWK	BLUE RIVER BASIN, KANSAS CITY, MO
NWD	NWK	BLUE RIVER CHANNEL, KANSAS CITY, MO
NWD	NWK	KANSAS CITYS, MO & KS
NWD	NWK	MISSOURI & MIDDLE MISSISSIPPI RIVERS ENHANCEMENT, MO
NWD	NWK	MISSOURI R FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & SD
NWD	NWK	MISSOURI RIVER LEVEE SYSTEM, IA, NE, KS & MO
NWD	NWK	SWOPE PARK INDUSTRIAL AREA, KANSAS CITY, MO
NWD	NWK	TURKEY CREEK BASIN, KS & MO
NWD	NWO	ANTELOPE CREEK, NE
NWD	NWO	BIG SIOUX RIVER, SIOUX FALLS, SD
NWD	NWO	FT PECK DAM AND LAKE, MT
NWD	NWO	GARRISON DAM, LAKE SAKAKAWEA, ND
NWD	NWO	MISSOURI RIVER RESTORATION, ND
NWD	NWO	NORTH DAKOTA INFRASTRUCTURE, ND
NWD	NWO	RURAL MONTANA, MT
NWD	NWP	COLUMBIA RIVER FISH MITIGATION, WA, OR & ID
NWD	NWP	COLUMBIA RIVER TREATY FISHING ACCESS SITES, OR & WA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
NWD	NWP	ELK CREEK LAKE, OR
NWD	NWP	GREEN PETER - FOSTER LAKES, OR
NWD	NWP	JOHN DAY LOCK AND DAM, OR & WA
NWD	NWP	LOWER COLUMBIA RIVER ECOSYSTEM RESTORATION, OR & WA
NWD	NWP	MOUNT SAINT HELENS SEDIMENT CONTROL, WA
NWD	NWP	WILLAMETTE RIVER TEMPERATURE CONTROL, OR
NWD	NWS	CHIEF JOSEPH DAM GAS ABATEMENT, WA
NWD	NWS	DUWAMISH AND GREEN RIVER BASIN, WA
NWD	NWS	HOWARD HANSON DAM, WA
NWD	NWS	MUD MOUNTAIN DAM, WA
NWD	NWS	PUGET SOUND AND ADJACENT WATERS RESTORATION, WA
NWD	NWS	RURAL IDAHO, ID
NWD	NWS	RURAL MONTANA, MT
NWD	NWS	SHOALWATER BAY, WA
NWD	NWW	LITTLE WOOD RIVER, ID
NWD	NWW	LOWER SNAKE RIVER FISH & WILDLIFE COMPENSATION, WA, OR & ID
NWD	NWW	RURAL IDAHO, ID
POD	POA	AKUTAN HARBOR, AK
POD	POA	ALASKA COASTAL EROSION, AK
POD	POA	CHENA RIVER LAKES, AK
POD	POA	SITKA HARBOR, AK
POD	POA	ST PAUL HARBOR, AK
POD	POA	UNALASKA HARBOR, AK
POD	POH	HAWAII WATER MANAGEMENT, HI
POD	POH	IAO STREAM FLOOD CONTROL, MAUI, HI
POD	POH	KAHUKU STORM DAMAGE REDUCTION PROJECT, OAHU, HI
SAD	SAC	LAKES MARION AND MOULTRIE, SC
SAD	SAJ	BREVARD COUNTY, CANAVERAL HARBOR, FL
SAD	SAJ	CEDAR HAMMOCK, WARES CREEK, FL
SAD	SAJ	CENTRAL & SOUTHERN FLORIDA, FL
SAD	SAJ	DADE COUNTY, FL
SAD	SAJ	DUVAL COUNTY, FL
SAD	SAJ	EVERGLADES AND SOUTH FLORIDA ECOSYSTEM RESTORATION, FL
SAD	SAJ	FLORIDA KEYS WATER QUALITY IMPROVEMENTS, FL
SAD	SAJ	FORT PIERCE BEACH, FL
SAD	SAJ	JACKSONVILLE HARBOR, FL
SAD	SAJ	KISSIMMEE RIVER, FL

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
SAD	SAJ	LEE COUNTY, FL (REIMBURSABLE)
SAD	SAJ	MANATEE COUNTY, FL
SAD	SAJ	MANATEE HARBOR, FL
SAD	SAJ	MARTIN COUNTY, FL
SAD	SAJ	NASSAU COUNTY, FL
SAD	SAJ	PALM BEACH COUNTY, FL
SAD	SAJ	PINELLAS COUNTY, FL
SAD	SAJ	PONCE DE LEON INLET, FL
SAD	SAJ	PORT EVERGLADES HARBOR, FL
SAD	SAJ	PORTUGUES AND BUCANA RIVERS, PR
SAD	SAJ	RIO PUERTO NUEVO, PR
SAD	SAJ	ST JOHN'S COUNTY, FL
SAD	SAJ	TAMPA HARBOR, FL
SAD	SAM	ATLANTA ENVIRONMENTAL INFRASTRUCTURE, GA
SAD	SAM	COASTAL MISSISSIPPI WETLANDS RESTORATION (DEER ISLAND), MS
SAD	SAM	MOBILE PASS, AL
SAD	SAM	PANAMA CITY BEACHES, FL
SAD	SAM	TENNESSEE - TOMBIGBEE WATERWAY, AL & MS
SAD	SAS	HARTWELL LK,CLEMSON UPPER & LOWER DIVERSION, SC (DAM SAFETY)
SAD	SAS	RICHARD B RUSSELL DAM AND LAKE, GA & SC
SAD	SAS	SAVANNAH HARBOR DISPOSAL AREAS, GA & SC
SAD	SAS	SAVANNAH HARBOR EXPANSION, GA
SAD	SAW	BRUNSWICK COUNTY BEACHES, NC
SAD	SAW	CAROLINA BEACH AND VICINITY, NC
SAD	SAW	JOHN H KERR LAKE, VA & NC
SAD	SAW	ROANOKE RIVER UPPER BASIN, HEADWATERS AREA, VA
SAD	SAW	WEST ONSLOW BEACH AND NEW RIVER INLET, NC
SAD	SAW	WILMINGTON HARBOR, NC
SPD	SPA	ACEQUIAS IRRIGATION SYSTEM, NM
SPD	SPA	ALAMOGORDO, NM
SPD	SPA	CENTRAL NEW MEXICO, NM
SPD	SPA	EL PASO COUNTY, TX
SPD	SPA	MIDDLE RIO GRANDE FLOOD PROTECTION, BERNALILLO TO BELEN, NM
SPD	SPA	RIO GRANDE FLOODWAY, SAN ACACIA TO BOSQUE DEL APACHE, NM
SPD	SPA	SW VALLEY FLOOD DAMAGE REDUCTION, ALBUQUERQUE, NM
SPD	SPK	AMERICAN RIVER WATERSHED (COMMON FEATURES), CA
SPD	SPK	AMERICAN RIVER WATERSHED (FOLSOM DAM MODIFICATIONS), CA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
SPD	SPK	AMERICAN RIVER WATERSHED (FOLSOM DAM RAISE), CA
SPD	SPK	CALFED LEVEE STABILITY PROGRAM, CA
SPD	SPK	FARMINGTON RECHARGE (SEC 502)
SPD	SPK	GUADALUPE RIVER, CA
SPD	SPK	KAWEAH RIVER, CA
SPD	SPK	LAKE DAVIS WATER TREATMENT PLANT
SPD	SPK	LITTLE DELL LAKE, UT
SPD	SPK	MERCED COUNTY STREAMS, CA
SPD	SPK	MID-VALLEY AREA LEVEE RECONSTRUCTION, CA
SPD	SPK	NAPA RIVER, CA
SPD	SPK	PLACER COUNTY SUB-REGIONAL WASTEWATER TREATMENT
SPD	SPK	RURAL UTAH
SPD	SPK	SACRAMENTO RIVER BANK PROTECTION PROJECT, CA
SPD	SPK	SACRAMENTO RIVER, GLENN-COLUSA IRRIGATION DISTRICT, CA
SPD	SPK	SAN LORENZO RIVER, CA
SPD	SPK	SOUTH SACRAMENTO COUNTY STREAMS, CA
SPD	SPK	STOCKTON METROPOLITAN FLOOD CONTROL REIMBURSEMENT, CA
SPD	SPK	SUCCESS DAM, TULE RIVER, CA (DAM SAFETY)
SPD	SPK	TAHOE BASIN RESTORATION 108
SPD	SPK	YUBA RIVER BASIN, CA
SPD	SPL	CITY OF INGLEWOOD
SPD	SPL	CITY OF SANTA CLARITA, CA
SPD	SPL	COLORADO LAGOON, CA
SPD	SPL	HARBOR/SOUTH BAY WATER RECYCLING STUDY, LOS ANGELES, CA
SPD	SPL	LOS ANGELES HARBOR MAIN CHANNEL DEEPENING, CA
SPD	SPL	LOS ANGELES RIVER DEMONSTRATION PROJECTS, CA
SPD	SPL	MURRIETA CREEK, CA
SPD	SPL	NOGALES WASH, AZ
SPD	SPL	RIO DE FLAG FLAGSTAFF, AZ
SPD	SPL	SAN LUIS REY RIVER, CA
SPD	SPL	SANTA ANA RIVER MAINSTEM, CA
SPD	SPL	SEC. 595 RURAL NV
SPD	SPL	TRES RIOS, AZ
SPD	SPL	TUCSON DRAINAGE AREA, AZ
SPD	SPN	CONTRA COSTA CANAL, CA (SEC 219)
SPD	SPN	CORTE MADERA CREEK, CA
SPD	SPN	HAMILTON AIRFIELD WETLANDS RESTORATION, CA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2010

MSC	DISTRICT	PROJECT (OR PROGRAM) NAME
SPD	SPN	LLAGAS CREEK, CA
SPD	SPN	NAPA RIVER, SALT MARSH RESTORATION, CA
SPD	SPN	NORTHERN HALF MOON BAY (PRINCETON), CA
SPD	SPN	OAKLAND HARBOR (50 FOOT PROJECT), CA
SPD	SPN	PETALUMA RIVER, CA
SPD	SPN	SACRAMENTO DEEPWATER SHIP CHANNEL, CA
SPD	SPN	SAN FRANCISCO, CA (PIER 36)
SPD	SPN	SAN RAMON VALLEY RECYCLED WATER, CA
SPD	SPN	UPPER GUADALUPE RIVER, CA
SWD	SWF	BOSQUE RIVER WATERSHED, TX
SWD	SWF	CENTRAL CITY, FORT WORTH, UPPER TRINITY RIVER BASIN, TX
SWD	SWF	DALLAS FLOODWAY EXTENSION, TRINITY RIVER PROJECT, TX
SWD	SWF	GRAHAM, TX (BRAZOS RIVER BASIN)
SWD	SWF	JOHNSON CREEK, ARLINGTON, TX
SWD	SWF	SAN ANTONIO CHANNEL IMPROVEMENT PROJECT
SWD	SWG	BRAYS BAYOU, HOUSTON, TX
SWD	SWG	CLEAR CREEK, TX
SWD	SWG	CORPUS CHRISTI SHIP CHANNEL, TX
SWD	SWG	HOUSTON - GALVESTON NAVIGATION CHANNELS, TX
SWD	SWG	HUNTING BAYOU, HOUSTON, TX
SWD	SWG	SIMS BAYOU, HOUSTON, TX
SWD	SWG	TEXAS CITY CHANNEL (50-FOOT PROJECT), TX
SWD	SWL	CLEARWATER LAKE, MO
SWD	SWT	CANTON LAKE, OK
SWD	SWT	RED RIVER BASIN CHLORIDE CONTROL, TX & OK
SWD	SWT	RED RIVER BASIN CHLORIDE CONTROL, TX & OK

FOOTNOTE

1. Yazoo Basin Projects - The projects within the Yazoo Basin that are currently being constructed are the Delta Headwater Projects that reduce flooding and sedimentation in Northwest Mississippi, the Upper Yazoo Projects that were authorized to improve headwater flooding in the Yazoo Basin and the Big Sunflower River Construction project known as the Steele Bayou Project.

Table 2. Status of Projects with Incomplete Compensatory Mitigation

<u>Division</u>	<u>District</u>	<u>Project Name</u>	<u>Percent Mit Physically Complete</u>	<u>Percent Project Physically Complete</u>	<u>Mit Total Acres of Land Required</u>	<u>Mit Total Acres of Land Acquired</u>	<u>Mitigation Requirements</u>	<u>Mitigation Accomplishments to Date</u>	<u>Estimated Date of Success</u>
LRD	LRC	Little Calumet River, IN	27	80	435.1	435.1	A total of 435 acres are required to meet the compensatory mitigation requirement for the Little Calumet River project. Mitigation includes establishing functional bottomland hardwood forests and emergent wetlands offsite.	To date, all of the required land has been acquired. Restored: 3 acres of wet prairie, 42 acres of mesic/wet mesic prairie and 44 acres of wet oak savanna.	2016
LRD	LRH	Marmet Lock Replacement, WV (Kanawha River Navigation Study - Marmet Lock Replacement)	100	100	58	58	A total of 58 acres are required for on-site mitigation activities. Mitigation includes restoration of riverine riparian, hardwood forest, bottomland hardwood/riparian habitats. Aquatic mitigation included in-stream (Kanawha River) stone and timber dikes, rubble placement, root wads for habitat improvement.	Created 5.3 acres of riverine riparian habitat (emergent wetlands and embayment), upland hardwood forest plantings - 31Acres, bottomland hardwood/riparian - 4 acres planted, agricultural lands - 18 acres planted with prairie grasses and mast seed (values change of 50-year planning period).	2020
LRD	LRH	R.C. Byrd Lock Replacement (Gallipolis Lock Replacement Project), WV & OH	100	99.9	1026	1026	A total of 1026 acres on and off-site were required for meeting the mitigation requirement for the R.C. Byrd lock replacement.	Developed 224 acres including emergent wetland creation on project lands; acquired and managing 820 acres off-site known as Greenbottom Swamp (emergent and scrub-shrub). Managing for Fish and Wildlife	2014
LRD	LRL	Cincinnati Metro Region, Duck Creek, OH	100	95	23	23	Riparian restoration (23 acres total) which includes reforestation (bottomland hardwood tree plantings) and placement of wood duck and squirrel nesting boxes.	All 23 acres of plantings completed enhancing wildlife habitat within riparian environment.	2015
LRD	LRL	Indianapolis, White River, IN	0	0	29	0	Riparian Restoration of 29 acres hardwoods reforestation and wetlands restoration and/or creation.	No accomplishments to date. Local sponsor looking for sites.	2018
LRD	LRL	Olmsted Lock and Dam, KY	100	60	3463	3463	Purchase of mitigation lands, increased water management capability on Ballard Wildlife Management Area (WMA), KY, monitoring of bald eagles and waterfowl populations, monitoring of freshwater mussel populations, support of development of restoration and propagation methodologies for mussels, and restoration of former clay mine site that serves as part of construction site.	Acquired 2063 acres of bottomland hardwoods, wetlands and agricultural lands for wildlife management, constructed water supply system providing wetland management capabilities on 1400 acres of Ballard Wildlife Management Area - State Lands, KY, and provide Kentucky Department of Fish and Wildlife Resources funding to monitor and construct or repair managed wetlands. Clay minimizing area will be restored as construction progress allows.	2023
LRD	LRP	Lower-Mon-234 (Locks and Dams 2, 3 and 4, Monongahela River Project), WV & PA	25	62	0	0	Construction of design features into the Braddock Dam to increase water aeration and increase dissolved oxygen concentration in receiving water. A total of 396 acres are required to meet the compensatory mitigation requirement for the dams 2, 3, and 4 project on the Lower Monongahela River. Mitigation includes restoring shallow riverine habitat, establishing emergent wetlands, and ecosystem restoration of an abandoned strip mine.	Completed measure is the installation of a water quality gate for aeration in Braddock Dam and optimization of operational changes to augment low flow aeration at Dam 4. The remaining three mitigation features are integral to future construction activities and will be initiated when those construction activities are either initiated or completed.	2030

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MVD	MVK	Upper Yazoo Projects, MS	74.6	70	16250	12130.9	Purchase 16,250 acres of bottomland hardwood habitat, either cleared or agriculture land, for reforestation and management.	12,130.94 acres of cleared frequently flooded agricultural lands have been purchased and 10,327.94 acres have been reforested to date. 1,503 acres are in moist soil management and 300 acres are scheduled to be reforested in 2012. 4,119.06 acres remain to be purchased.	2015
MVD	MVK	J Bennett Johnston Waterway, LA	50	88	14000	7063.9	Purchase 14,000 acres of bottomland hardwood lands for management and reforestation. Lands may be a mixture of agricultural for restoration or be already existing forest.	7,063 acres have been purchased to date, effort is ongoing to acquire land from willing sellers. 6937 acres remaining.	2015
MVD	MVK	Mississippi River Levees-Const, AR, IL, KY, LA, MS, MO & TN	98	83	5200	5094.7	The Vicksburg District was required to reforest 5,200 acres of bottom land hardwoods.	Reforested approximately 5094 acres of bottom land hardwoods of the required 5200 acres	2015
MVD	MVM	Bayou Meto Basin, AR	0	0	4093	100	Purchase 4,093 acres of farmland. Restore hydrology and plant bottomland hardwood forest.	100 acres has been purchased but site restoration has not been initiated.	2021
MVD	MVM	MS River Levees Construction, AR, IL, KY, LA, MS, MO & TN	20	39	837	169	Acquire 837 acres of farmland, restore hydrology, and plant bottomland hardwood forest.	To date 169 acres of farmland has been purchased. Site restoration has not been initiated.	2025
MVD	MVM	St Francis Basin Construction, AR & MO	98	89	13500	13310	Acquire and manage 13,500 acres of bottomland hardwood forest habitat.	13,310 acres of bottomland hardwood forest habitat has been purchased and placed under management, 248 acres remaining to be purchased in MO.	2020
MVD	MVM	St.Johns Bayou-New Madrid Flw, MO	18	7	8800	1600	The existing NEPA record was set aside by the Federal District Court for the District of Columbia. The overall amount of required mitigation is being revised in a new NEPA document.	1,600 acres of bottomland hardwood habitat has already been purchased, but mitigation efforts are on hold now due to litigation.	2020
MVD	MVM	West Tennessee Tributaries, TN	41	41	32000	13527	Court ordered 32,000 acres	13,527 of 32,000 acres have been purchased to date.	2026
MVD	MVN	East Baton Rouge Parish LA (Amite River and Tributaries, Louisiana, East Baton Rouge Parish Watershed Flood Control Projects)	0	11	397	0	Habitat Mitigation: Replace in-kind 100% of the bottomland hardwood losses for each watershed-- Acquire, reforest and manage 397 acres of cleared land for bottomland hardwood habitat; return lost vegetative cover along 29.55 linear miles of impacted stream banks in Blackwater Bayou, Beaver Bayou, Bayou Fountain, Ward Creek, and Jones Creek.	Mitigation efforts with willing land owners have not begun.	2018
MVD	MVN	Inner Harbor Navigation Canal Lock, LA	0	1	85	0	Acquire, revegetate and manage 85 acres of currently submerged land and shallow brackish water through beneficial use of dredged material, plantings, and management.	Mitigation plan has only recently been approved and construction related efforts beginning, so no mitigation work done yet.	2036

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MVD	MVN	Lake Pontchartrain 30000- Jefferson, LA	100	100	10	10	Construct breakwaters to protect wetlands and dredged material deposition to restore wetlands - 1,100 average annual acres total preserved/restored	This is in support of the existing hurricane levees. Mitigation, breakwater construction and wetland creation have been completed.	2014
MVD	MVN	Larose to Golden Meadow, LA (1985 Mitigation)	100	95	4598	4598	The required and authorized mitigation for the Larose to Golden Meadow 1985 Hurricane Protection Project calls for construction of a levee and water-control structure along the eastern boundary of the mitigation site; herein referred to as the Pointe-au-Chien WMA Mitigation Site. These features will serve to enhance the functional values of wetlands in the mitigation site.	The primary component of the 1985 Mitigation plan involved construction of a 7-mile long levee and 3 water control structures (weirs). These features were the backbone of a regional water management system intended to enhance existing degraded wetlands within the mitigation site proper. This site encompassed 4,598 acres in the publicly owned Pointe-au-Chien Wildlife Management Area.	2013
MVD	MVN	Mississippi River Levees Construction Program, LA	75	75	24.8	20	New Orleans District was required to mitigate for 24 acres of bottomland hardwood.	Reforested 20 acres of bottomland hardwood of the required 24 acres.	2016
MVD	MVP	LD3, Mississippi River - Construction (Mississippi River: Lock and Dam 3 Navigation Safety and Embankments, Minnesota and Wisconsin)	80	0	314.3	561.9	Interagency coordination determined that given the limited opportunities to provide functional mitigation features for affected channel border aquatic habitat in a cost effective manner, resource agencies concurred that an acceptable mitigation approach is to focus primarily on bottomland hardwoods restoration combined with freshwater marsh features. Acquisition and development of 313 acres is required.	All required acres for mitigation have been purchased. 78 acres have been successfully revegetated to date.	2022
MVD	MVR	Illinois Waterway Dredged Material Management Plan (Bulls Island), IL & IN	100	50	1.5	1.5	A 1 acre emergent cordgrass wetland.	1.5 acres of credit were purchased from an a credited wetland bank. No additional mitigation is required.	2010 (a)
MVD	MVR	Illinois Waterway Dredged Material Management Plan (LaGrange Pool - Beardstown), IL & IN	100	100	0.5	0.5	Three small, shallow breeding ponds were constructed. Each pond is less than one-half acre and less than 2 feet deep.	Three small, shallow frog breeding ponds were constructed, totaling less than one-half acre, and less than 2 feet deep.	2010 (a)
MVD	MVR	Mississippi River Dredged Material Management Plan (Pool 19 - Kemps-Craigles), IL	100	100	5.4	5.4	5.4 acres of farmed and prior converted wetland to revert to a floodplain forest wetland habitat.	5.4 acres of riparian wetland was purchased and then farming ceased, allowing the land to return to natural vegetation. 800 saplings were also planted to offset the loss 2.7 acres of approximately 50 mature trees. The high quantity of saplings will offset the wetland value of the mature trees.	2010 (a)

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MVD	MVR	Des Moines & Raccoon Rivers, IA	0	50	20.8	20.8	6.4 acres of upland forest 0.4 acres of bottomland forest 2.8 acres of emergent wetland 1.2 acres of herbaceous upland buffer 2.7 acres of open water	Mitigation plan has been approved. Construction should begin in 2011.	2017
MVD	MVS	Chain of Rocks, IL	55	60	146.4	178.1	Mitigation will consist of the development of 146.4 acres of habitats, including 134.7 acres of wetlands (92.4 acres forested and 42.3 acres herbaceous) and 11.7 acres of non-wetland bottomland forest.	In 2000 a 14-acre wet prairie was constructed. In 2004 62 acres of forested wetlands and non-wetland forest were established. In 2008 a 97-acre tract was acquired for establishment of 4 acres of forested wetlands, 8 acres of herbaceous wetlands, and 77 acres of non-wetland forest. A plan to establish these habitats has been prepared.	2022
MVD	MVS	Chesterfield, MO	95	20	91.3	95	The initial mitigation requirement for creation of 9.2 acres of emergent wetlands and 6.8 acres of forested wetlands changed to preservation of 73 acres of forested wetlands and restoration of 14 acres of cropland due to proximity to an airport. The plan also includes the creation of 4.3 acres of open water wetlands at a distance from the airport.	Construction completed for preservation of forested wetland. In 2006 95-acre tract acquired; conservation easement placed on property. In 2010 native grasses planted in 14-acre crop field within this tract to allow for reforestation through natural succession.	2018
MVD	MVS	St. Louis Flood Protection, MO	0	10	0.1	0	Compensate for loss of 0.1 acres of forested wetland by obtaining credits from a mitigation bank.	Suitable mitigation bank identified.	2011
NAD	NAN	Green-Brook, NJ (Segment U)	40	60	300	120	During the 1997 SEIS agency consultation, CENAN proposed enhancing the habitat value for approximately 300 acres (to include forested wetland, emergent wetland, stream and forested upland) to compensate for the land affected by the project. CENAN has identified 39 potential mitigation sites within the basin, totaling 1,450 acres. Specific mitigation plans and the completion of permitting requirements will take place prior to construction. Project is being built in phases as it relates to being incrementally funded.	To date, 120 acres have been implemented consisting of riparian forest/streambank, upland and wetland forest, shrub/scrub and emergent wetlands and adjacent grasslands.	2018
NAD	NAN	Minish Park, NJ (Joseph G. Minish Waterfront Park and Historic Area)	0	65	1.7	0	Mitigation required: 1.68 acres of mitigation.	0 acres implemented - may be deferred until after Superfund activities are completed.	2017

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NAD	NAN	NY & NJ Harbor (50') NY&NJ	100	80	80	80	The construction of approximately 57 acres of tidal wetlands over 4 sites (out of kind) within the NY/NJ Harbor estuary was required. Mitigation on lands owned by National Park Service, Towns of Woodbridge and Carteret, NJ and New York State.	To date, all sites have been constructed and monitoring has shown that the sites are functioning as designed. Both State Regulatory Agencies have spoken positively on the coordination and construction of the multiple project sites.	2013
NWD	NWK	Blue River Basin, K. C., MO	0	45	0.5	0.5	A total of 0.5 acre of wetland mitigation would be required for this project. Acquisition of real estate for the mitigation site and future management of the mitigation site would be the project sponsor's responsibility	The project is in design and 45% complete. Physical construction has not been initiated and the 0.5 acre of emergent wetland remains to be constructed.	2015
NWD	NWK	Blue River Channel, K.C., MO	35	90	540	240	A maximum of 442 acres of native grass and 98 acres of bottomland hardwood forest is required to mitigate for this project. Changes to the project design, as a result of value engineering studies, will likely result in less adverse impact to fish and wildlife habitat.	Mitigation complete to date is 240 acres of native grass planting.	2026
NWD	NWO	Perry Creek, Sioux City, IA	100	80	46	46	Mitigation plantings included 33 acres of native grass species, and 13 acres of tree and shrub plantings.	46 acres mitigation required; consisting of grassland, shrub and tree plantings: all completed, but 3 acres need to be relocated.	2011
NWD	NWO	Western Saryp/Clear Creek, NE	33	40	278	278	40 acres wet meadow mitigation to offset immediate impact to 8.29 acres of wetlands and unknown predicted future impacts to wetlands. Consultation with the FWS under ESA Section 7, resulted in project modifications over 238 acres and consisting of a levee setback and associated construction of a new side channel, reconnection of a previously destroyed side channel, reconstruction of an aggraded side channel, clearing of two islands of woody vegetation, and notching of a levee/tire revetment to create three side channels and sandbars.	Total mitigation of 40 acres of wet meadow; 2 acres conducted as a test plot to test methods that will be used to determine correct seeding rate, mulch cover and elevation of mitigation 40 acre wet meadow. ESA work has begun on the construction of chutes/backwaters on Vencil's island and the left descending bank of the Platte River.	2019
NWD	NWP	Columbia River Channel Improvement-Navigation, OR & WA	99	99	388	388	Mitigation for loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. Issues surrounding mitigation site acquisition have now been resolved and mitigation is underway: 272 acres of mitigation at the following sites: Chumley, Webb, and Cottonwood.	Of the 388 total acres acquired for mitigation 70 acres of riparian forest planting is complete, 88.5 acres of emergent wetland habitat has been developed or enhanced and 96 acres of pasture management is accomplished yearly. Pasture lands are mowed annually through Corps funded O&M. The Cottonwood projects will be completed in 2011, in which all projects will then be managed under the Corps O&M program.	2013

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NWD	NWS	Howard Hanson Dam, WA (Additional Water Storage Project (Phase 1 only))	85	100	348.5	279.5	Mitigation consists of: instream habitat restoration through culvert replacement engineered log jams and side channels; riparian planting, thinning, protection and conservation; management of forest, pasture and emergent marsh; and creation of elk forage habitat.	Set aside and managed 145 acres of riparian buffer, 11.43 acres of instream habitat including gravel bars for spawning and engineered log jams, plus 123 acres of elk pasture. Remaining real estate needs in-process.	2017
POD	POA	False Pass Harbor, AK	100	100	1.2	1.2	Mitigate impacts for loss of shallow subtidal marine habitat by breaching breakwater and placing 25 reef balls and monitoring recolonization by benthic species; monitor project effects on waterfowl abundance, distribution, and exposure to petroleum.	Constructed mitigation features included two 0.62-acre subtidal boulder fields placed 25 subtidal artificial reef structures (reef balls) to provide fish habitat. Incorporated a near-shore breach in one breakwater for fish passage through the harbor. Two years of algae monitoring is complete. Monitoring took place in summers of 2009 and 2010 and indicates success.	2011
POD	POA	Seward Harbor, AK	100	100	5.2	5.2	Dredged material placement was required to create approximately 5 acres of soft-bottom habitat to mitigate loss of similar habitat used by shellfish and other invertebrates.	Mitigation created 5.15 acres of soft bottom seabed by the beneficial use of harbor dredged material. Re-colonization is normally rapid. No post construction monitoring will be conducted.	2010 (a)
POD	POA	Unalaska Harbor	100	80	0.2	0.2	Compensatory in-kind mitigation is required to replace nearshore and intertidal habitat for sea otters, seals, waterfowl, and benthic communities by creating 30 rubble/boulder reef structures comprising approximately 0.2 acres in the intertidal and nearshore subtidal habitat lost during harbor construction. Monitoring is required to determine colonization by key marine organisms. Monitoring is also required to determine whether the project affects movement, abundance, or distribution of Steller's eiders or northern sea otters or is otherwise causing a taking of those species.	The construction of 30 reefs provide in-kind habitat of rocky intertidal and subtidal habitat that favors use by sea ducks and marine organisms that use more open habitat. This in-kind offsite mitigation is 100% complete. There are no recommendations to improve features at this time.	2013
POD	POA	Akutan Harbor, Ask	100	2	41.7	41.7	At conclusion of harbor construction, the Corps will monitor salinity in the stream to ensure that the project has not caused saltwater inflow that could affect fisheries habitat. The Corps, with consultation with USFWS and other appropriate agencies, could recommend appropriate measures and associated monitoring to ameliorate substantial adverse effects.	Although the acreage has been set aside by a conservation easement recorded prior to construction, success of mitigation will be determined by monitoring salinity in stream after construction is completed. Depending on salinity intrusion and affect on fisheries habitat additional measures may be required to ameliorate substantial adverse effects. At that time further consultation with agencies could develop study parameters to determine further actions.	2014

Table 2. Status of Projects with Incomplete Compensatory Mitigation

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SAD	SAJ	Cedar Hammock, Wares Creek, FL	50	0	2.5	2.5	Mitigation consists of restoring 2.53 acres of estuarine habitat at the Emerson Point Restoration Project by restoring tidal flow and removal of exotic plant species.	Mitigation construction is underway (site preparation) - 0 acres mitigation completed.	2012
SAD	SAJ	Herbert Hoover Dike, FL (Reach 1)	100	34	9.2	9.2	Remove and control invasive exotic Meleleuca and Australian Pine (9.2 acres).	Invasive exotics, Meleleuca and Australian Pine removed. Mitigation site is subject to periodic monitoring and maintenance to remove any subsequently invading exotics.	2017
SAD	SAJ	Herbert Hoover Dike, FL (Reaches 2 and 3)	0	0	229.5	229.5	The remaining 229.5 acres of disturbed wetlands would be restored by removal of exotic invasive plant species and establishment of native wetland species.	Mitigation not yet constructed.	2016
SAD	SAJ	IWW Jacksonville-Miami, FL (Construct Upland Disposal Sites IR-2 and SL-2)	0	28	7.2	7.2	(1) 5.95 acres of wetland mangrove and upper marsh creation from a former citrus grove by grading to establish hydrology and by planting. (2) perpetual conservation easement over an additional 1.23 acres of on-site wetlands.	Mitigation not yet constructed.	2017
SAD	SAJ	Martin County, FL (4th Periodic Renourishment)	0	0	5	5	Creation of nearshore artificial reef with concrete rubble (original mitigation for direct impacts) and additional mitigation for indirect impacts with concrete rubble or other suitable material (Current SEIS/LRR: Indirect impacts identified by the post-construction monitoring would be mitigated by creation of artificial reef).	Mitigation for 4th renourishment not yet constructed.	2012
SAD	SAJ	Miami Harbor Channel, FL (113083 Miami Harbor GRR)	0	0	30.2	30.2	-Restoration of approximately 24 acres of seagrass beds. -the creation of artificial reef habitat: 5.4 acres for high relief hardbottom/reef habitat and 0.8 acres for low relief hardbottom/reef habitat.	Project and mitigation not yet started.	2017
SAD	SAJ	Rio De La Plata, PR (Northern Segment, Mameyal Community (Contract 1A))	0	0	85	85	Northern Segment, Mameyal Community (Contract 1A), Mitigation: create mangrove (21.3 acres), lagoon (10 acres), and herbaceous wetland habitat (53.7 acres).	Real Estate acquired to establish 21.3 acres of mangrove, 10 acres of lagoon, and 53.7 acres of herbaceous wetlands.	2013
SAD	SAJ	Rio Grande de Arcibo, PR	0	25	7.2	7.2	Restoration 7.2 acres of mangrove forest required for next phase. Restoration consists of clearing and grading, then planting with mangrove seedlings.	Future construction requires replacement of estuarine wetlands. Mitigation for future phases will be part of the phase 1 construction contract (awarded and underway).	2016
SAD	SAJ	Rio Puerto Nuevo, PR	15	38	32.9	32.9	Creation of 28 acres mangrove forest in project right-of-way plus 4.9 acres NE of improved channel.	4.9 acres of mangrove adjacent to project already constructed and established. Remaining 28 acres to be constructed along with project construction.	2015
SAD	SAJ	San Juan Harbor, PR	0	100	1.2	1.2	1.2 acres marine submerged aquatic vegetation established by raising and stabilizing bottom.	Mitigation not yet funded or started.	2016

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SAD	SAM	Tennessee - Tombigbee Waterway, AL & MS (Bevill Cross Current)	0	90	50	28	Compensatory mitigation for the proposed activity is required and the Corps will implement a three part plan addressing impacts to TTW Wildlife Mitigation lands, aquatic habitat, and bottomland hardwood wetlands along with a species specific management plan. The plan includes 1) preservation of 12 acres of predominantly bottomland hardwoods and wetlands of similar quality to those impacted, 2) control and removal of invasive/exotic species from 16 acres of Corps controlled surface waters, and 3) enhancement of 22 acres of bottomland hardwood through control of invasive/exotic species on Corps controlled reserve properties not currently bound by previous management agreements.	Mitigation implementation has not begun.	2021
SAD	SAS	Brunswick Harbor Deepening GA	50	100	37.9	19.1	The District is required to mitigate for impacts to 34.5 acres of essential fish habitat. This impact resulted from the creation of a beneficial use dredge material island (sometimes referred to as bird island) in St. Simon's Sound. The District is also committed to provide mitigation for impacts to 5.9 acres of salt marsh from the turning basin enlargement and 1 acre of salt marsh from future maintenance activities at Andrew's Island.	Restored 17.6 acre salt marsh and 1.0 acres of oyster flats at Andrew's I; restored 16.6 acres of intertidal sand flats at the bird island; restored 0.8 acres of intertidal rip-rap with oysters at the bird island; restored 1.0 acres of intertidal flats with oysters at the bird island; restored 0.7 acre of subtidal riprap at bird island. the project mitigation plan has been updated and additional activities are proceeding .	2016
SAD	SAS	R B Russell Dam & Lake, GA & SC	50	90	0	0	The Savannah District and South Carolina Department of Natural Resources agreed for commercial operation of pumped storage at the Richard B. Russell (RBR) Dam and Powerhouse. The items included in the agreement were: Construction of an O2 system approximately 5.5 miles upstream of JST Dam and Lake; five years of environmental monitoring once full capacity 4-unit pumped storage is achieved; Corps limitation to utilization of only two pumped storage units during the months of June through September until the O2 system is complete.	FY2010 funds were to be used for Access Road Improvements to the Oxygen System Site at JST Dam and Lake, to continue the construction contract for fabrication and installation of the Aboveground O2 system components, and to award a design-build contract for the Underwater O2 system components. The Aboveground Contract is scheduled to be completed in January 2011 while the Underwater Contract is scheduled for completion in December 2011.	2016
SAD	SAW	Manteo (Shallowbag) Bay, NC	9.6	65	12	12	125 acres of aquatic habitat (oyster reef) for all project components.	12 of 125 acres have been constructed thus far in association with completed project components; specifically associated with work in Wanchese Harbor and the disposal of dredged material on islands in the project vicinity (northern Dare County, NC).	2020

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SAD	SAW	Wilmington Harbor, NC - 96 Act	52.94	69	732.8	662.8	Island 13 - Restoration of 30.4 acres of primary nursery (including 3.4 acres of intertidal marsh) on Cape Fear River dredged material disposal island 13. Prevention of Degradation (POD) Lands - Acquisition of 700 acres of riparian wetland habitat buffer on the NE Cape Fear River, including the river shoreline and two tributaries (Tony's and Lagoon Creeks), which serves to protect 29 acres of estuarine primary nursery area. Fish passage at Lock and Dam #1 on the Cape Fear River - Construction of rock rapids on the downstream face of the dam to better facilitate anadromous fish passage upstream.	- Island 13: Construction of 30.4 acres of marsh and intertidal habitat is complete. - POD Lands: Approximately 90% of the 700 required acres has been acquired including 29 acres of estuarine primary nursery area. - Fish passage at Lock and Dam #1: Construction began in August 2010 and will be completed by March of 2013.	2013
SPD	SPK	American River - Bridge, CA	75	100	64.2	64.2	Mitigation required included 50 acres of oak woodland habitat, including 6 acres of riparian habitat, and 2.5 acres of seasonal wetland and 14.2 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle.	The Goethe site (14.2 acres of elderberry habitat) was planted in 2006, and the Rossmoor site (56 acres of oak woodland/riparian habitat) is currently being planted. Mitigation bank credits were purchased in 2008.	2015
SPD	SPK	American River - Common Features (American River Common Features), CA	100	100	25.6	25.6	The majority of impacts and associated mitigation for this project relate to the Federally listed valley elderberry longhorn beetle (VELB). Because they are host to this species, impacts to elderberry shrubs require mitigation under the ESA. Mitigation for this project has been accomplished, in most cases, on the consolidated sites referred to as the Goethe mitigation sites.	All mitigation sites have been established and are in the 10 year monitoring period. Some added funds will be needed to continue monitoring and for possible replanting. Conditions of the Biological Opinion have been partially met, and once the monitoring is completed they will have been fully met. Combining multiple projects on one site led to a large cost savings to the government and local sponsors as it is much more cost effective to maintain and monitor a single location than multiple sites. We also worked with the county parks department to find sites that would benefit the parks, have easy access and on-site water, which reduced the cost of installation (no wells required).	2013
SPD	SPK	American River - Folsom Outlet Mods (Joint Federal Project - Auxiliary Spillway), CA	90	10	16.8	16.8	Mitigation for the Joint Federal Project Flood Risk Management impacts include 1.8 acres riparian habitat, 0.21 acres chaparral habitat, and 1.38 acres oak woodland. Mitigation for the Folsom Dam Modifications Staging Area includes 7.73 acres of habitat for the Federally listed Valley Elderberry Longhorn Beetle (VELB), 6.77 acres oak woodland, and 0.53 acres chaparral habitat.	Initial maintenance at 11.5 is complete, and coordination with the FWS is underway to turn the site over to the non-federal sponsor. Valley Elderberry Longhorn Beetle (VELB) monitoring, however, will continue. Sailor Bar is also doing well, though some replanting and additional watering were needed last year. VELB monitoring is continuing. Rossmoor Bar planting is ongoing, but success is expected based on application of lessons learned.	2017

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SPD	SPK	Glenn Colusa Gradient Facility / RM208	100	100	34.3	34.3	(1) Short-term degradation to riverine habitat restored through natural processes following construction; (2) compensatory mitigation for loss or degradation of Shaded Riverine Aquatic (SRA) cover, riparian and elderberry habitat (supporting Federally listed Valley Elderberry Longhorn Beetle) by installing 34.3 acres of offsite and onsite riverine and riparian habitats (5.3 acres of shaded riverine aquatic cover habitat and 29 acres of riparian/elderberry habitat); and (3) providing suitable site conditions for natural reestablishment of emergent wetland habitat temporarily disturbed by construction.	34.3 acres of habitat mitigation has been accomplished (5.3 acres of revegetation at the project site was revegetated with riverine habitat and 29 acres of riparian floodplain terraces were planted near the project site). Mitigation monitoring has been completed, except for the GF onsite area. High river stages resulted in the loss of 1.4 acres of riverine cover onsite due to erosion. The GCID intake channel was planted in 2009 to compensate for loss of these plantings from erosion. Mitigation performance monitoring is in progress for the GF onsite area, and the 60% canopy cover success criterion is expected to be fully met in 2011.	2011
SPD	SPK	Guadalupe River San Jose, CA (Guadalupe River Project, Downtown San Jose, California)	100	98	26.8	29.2	Mitigation consists of monitoring (annual mitigation and monitoring reports published by sponsor and evaluated by Corps/agencies); adaptive management (annual meetings held with sponsor and agencies); and compensatory mitigation. Said mitigation, all installed, includes 21 acres of riparian (woody) vegetation, 23,895 linear feet of Shaded Riverine Aquatic (SRA) habitat and 25,190 square feet of new spawning habitat from placement of gravel and cobble in the river.	The Corps was responsible for the infill riparian and Shaded Riverine Aquatic (SRA) habitat mitigation plantings, plus the plating of the Reach A "offsite" (downstream of site) mitigation site. The sponsor was responsible for planting of the Guadalupe Creek "offsite" (upstream of Project site) mitigation site.	2010 (a)
SPD	SPK	Kaweah Spillway Enlargement, CA	90	100	5735.2	5735.2	Based on adverse impacts associated with project construction, mitigation was required to include installation of 40 acres of riparian habitat, 7.19 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle (VELB), and preservation of 4,388 acres of oak woodland and 1,300 acres of seasonal waterfowl habitat.	Mitigation accomplishments include establishment of 40 acres of riparian habitat and 7.19 acres of valley elderberry longhorn beetle (VELB) habitat; plus preservation of 4,388 acres of oak woodland habitat and creation of 1,300 acres of seasonal waterfowl habitat.	2014
SPD	SPK	Napa River, Napa, CA	85	47	505.7	885.7	The project did not include USACE-designated mitigation per se, but rather construction of site features in a manner avoiding or limiting adverse habitat impacts. All habitat creation, of 8 habitat types, was based on bank stabilization and vegetation establishment.	The Project has planted approximately 85% of the "mitigation" plantings and the remainder will be installed before Project completion in 2016. Most of the brackish emergent marsh, seasonal wetland, and tidal mudflat will be located in the onsite south wetland opportunity area/flowage easement area (SWOA/EA) "mitigation site." The other habitats (woodland, riparian, and shaded riverine aquatic) will be created within the Project limits.	2016

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SPD	SPK	Sacramento River Bank Protection CA-Construction (Setback Levee at River Mile 57.2R)	90	5	24.4	0.4	Mitigation will be required for the loss of heritage trees, impacts associated with the Valley Elderberry Longhorn Beetle resulting from transplanting elderberry plants within the project footprint, and effects to seasonal wetlands.	To mitigate for effects to Valley Elderberry Longhorn Beetle (VELB) habitat loss and heritage trees, elderberry shrubs were transplanted to a VELB mitigation bank. The transplants and additional planting of elderberry seedlings and associated native plants compensated for the adverse effects to the VELB, habitat loss and heritage trees. Success remains to be measured per agreement with the USFWS. Mitigation credits for temporal losses still need to be purchased as they become available.	2015
SPD	SPK	South Sacramento Co. Streams, CA	100	50	433.5	433.5	Mitigation was required for Giant Garter Snake, Vernal Pool Fairy & Tadpole Shrimp, wetlands impacts, Burrowing Owl, & Valley Elderberry Longhorn Beetle habitat. These impacts occurred in multiple years & in multiple streams in the project area. They are as follows, and construction & mitigation are completed except as noted. GGG- 8.7 acres for Unionhouse Creek to Franklin, 22.86 acres for Unionhouse Creek Franklin-Center Parkway, 4.8 acres for '98-2002 construction, .24 acres for '04 design changes. Vernal Pool Preservation- for fairy and tadpole shrimp- 9.18 acres Seasonal wetland creation- 1.13 acres VELB- 7 transplants Burrowing Owl- 386 acres for impacts to various creeks	Mitigation bank credits complete for Giant Garter Snake, Vernal Pool Fairy & Tadpole Shrimp, wetlands impacts, & Valley Elderberry Longhorn Beetle habitat. The impacts occurred in multiple years and in multiple streams in the project area. Numbers are as follow: GGG - 8.7 acres for Unionhouse Creek to Franklin, 22.86 acres for Unionhouse Creek Franklin-Center Parkway, 4.8 acres for '98-2002 construction, .24 acres for '04 design changes. Vernal Pool Preservation- for fairy and tadpole shrimp- 9.1 VELB- 7 elderberry transplants Burrowing owl- 386 acres Combined seasonal wetland, emergent marsh, and riparian scrub-1.13 acres 386 upland acres were improved to support burrowing owls	2011 (a)
SPD	SPK	Yuba River Basin CA (Marysville Ring Levee)	20	20	11.2	11.4	US Fish and Wildlife Services' Biological Opinion (BO) requires that 8.73 acres of woodland habitat be planted at an appropriate mitigation site. It also requires that 2.5 acres be set aside for elderberry shrub transplants and for planting associated natives.	Mitigation has not started for the Marysville Ring Levee project and is anticipated to begin in 2011.	2013
SPD	SPL	Murrieta Creek, CA (Phase I)	100	100	5.8	5.8	Mitigation required includes revegetation of an unmaintained habitat "corridor" with riparian cottonwood/willow vegetation within the modified channel. For Phase I, this habitat corridor is 70 feet wide and includes 2 4-foot tall "benches" that are periodically inundated based on the intensity of winter storms. Mitigation also includes revegetation of the channel side slopes with coastal sage scrub vegetation.	Revegetation of a approximately 3000 feet x 70 feet corridor as well as the adjacent side slopes. Mitigation monitoring is ongoing for 5 years. The project is in Year 2 of 5 for monitoring.	2014

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SPD	SPL	Nogales Wash, AZ	36	45	11.5	11.5	Compensatory mitigation measures include preservation of 2.7 acres of dense native riparian vegetation, and the revegetation of 8.81 acres along Nogales Wash and Potrero Creek (Areas A thru D) with native cottonwood, willow, and mesquite, accompanied by an appropriate assemblage of native understory vegetation.	Less than 1.5 acres in Area A successfully restored as of November 18, 2010.	2018
SPD	SPL	Rio De Flag - Flagstaff, AZ	0	52	3	3	Mitigation for impacts to cottonwood/willow include installation of 3.0 acres of riparian habitat preceded by exotic weed/invasives removal. Mitigation will be accomplished along the Rio de Flag within the project footprint.	There has been no mitigation accomplished to date.	2021
SPD	SPL	San Luis Rey River, CA	70	100	241	195.5	Mitigation (about 241 ac) is required for temporary and permanent impacts to waters of the U.S., waters of the State of California, riparian habitat, and vireo and southwestern willow flycatcher habitat. Mitigation entails preservation and restoration of riparian and vireo and flycatcher suitable habitat onsite and offsite of the project area. Maintenance of fish passage beneath bridges is required; boulders beneath bridges will be removed/reconfigured. An adaptive habitat management plan is required; will cover the project area, including areas to be preserved/restored and the flood risk management flow conveyance zone, and an off-site mitigation site.	Riparian habitat was established on-site prior to and during construction. About 32 ac created to meet preconstruction requirements. Mitigation requirements (preserve and restore), including Phases 1-3, would be met within the established area (~164 ac required on-site). Invasive plant control initiated in 2005; on-going within the project area; will fulfill requirements for Phases 1-3. Acquisition of off-site mitigation site by sponsor is in-progress (45.5 ac). Adaptive Habitat Management Plan in development.	2017
SPD	SPL	Santa Ana River Mainstem, CA	75	83	3376	3266	Restore 92 acres salt marsh, 5 acres freshwater marsh, ~1,257 acres of riparian habitat (mostly through non-native vegetation removal, with monitoring), and 11 acres perennial stream; trapping of nest-predating cowbirds; wildlife corridor improvements; develop and implement Habitat Management Plan for 1,100 floodplain acres downstream of Prado Dam; and develop and implement Multi-Species Habitat Management Plan for 764 acre preserve area downstream of Seven Oaks Dam.	Full restoration of approx. 450 acres of riparian habitat; partial restoration of approx. 900 acres of riparian habitat; restoration of 92 acres of salt marsh and 5 acres of freshwater marsh; initiated efforts to restore 11 acres perennial stream; ongoing mgmt of 1,864 acres of river wash/floodplain habitats; and acquisition/conservation of at least 150 acres outside of those habitat management areas.	2015

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SPD	SPL	Santa Maria River, CA	0	95	85	85	The permanent loss of 7.46 acres of native habitat would be fully mitigated through the creation of approx. 12 acres native riparian habitat through removal and revegetation of non-habitat project features. As part of the project approximately 73 acres of native habitat temporarily disturbed by project construction would be restored to pre project conditions with appropriate native habitat consistent with the natural conditions of the river.	Mitigation lands have been aquired. Mitigation Implementation has not begun yet.	2020
SPD	SPL	Tucson Drainage Area, AZ	0	75	5.5	5.5	Compensatory mitigation requirements include 5.5 acres of mitigation to replace 4.1 acres of desert riparian habitat that will be impacted by construction of the flood detention basin complex.	Mitigation site is currently under construction.	2018
SPD	SPN	Oakland Harbor Deepening 50', CA	87	100	15	15	Proposed dredging activities would result in the direct removal and loss of the eelgrass bed habitat. Mitigation for the potential loss of the eelgrass bed would consist of the establishment and long-term monitoring of an eelgrass bed with equal or greater spatial extent and density as that which already exists.	0 acres of eelgrass habitat have been fully restored. 100% of the dredged material has been placed in the Middle Harbor area. The material is currently settling. After the substrate has settled, the topography will be modified and native vegetation will be planted.	2018
SPD	SPN	Upper Guadalupe River, CA	25	2	21	21	Restoration of stream habitat and the riparian zone in six reaches of the Upper Guadalupe River. Restoration of the first reach includes 1.8 acres of riparian planting, which has been completed. Remaining mitigation acreage for the project includes 19.2 acres of riparian planting.	1.8 acres of riparian zone restoration plantings have been accomplished in the first reach to be constructed. Stream restoration areas in this reach have had construction activity (channel and floodplain reconfiguration) but no planting yet so are not complete. 0 acres of stream habitat and riparian zone restoration have been accomplished in the remainder of the project as these portions have had no construction yet. Mitigation work in these reaches will consist of riparian forest planting and aquatic habitat enhancement with channel modification and placement of large woody debris.	2024
SWD	SWF	Central City, Fort Worth, TX	0	5	0	0	Mitigation requirements include development of 1.43 acres of emergent wetland, establishment of 76.2 acres of riparian woodland, and establishment of 45.5 acres of upland forest. Additional requirements include management activities on 12.2 and 13.3 acres of existing riparian woodland and upland forest, respectively.	none yet. Mitigation cannot be constructed until after some of the project features are built.	2025
SWD	SWF	Dallas Floodway Extension, TX	40	10	750	750	Acquisition, planting, and management of 1,179 acres of additional project lands.	745 acres of the have been acquired and 120 acres of that has been managed/planted.	2025

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SWD	SWF	Waco Lake Pool Raise, TX	60	100	1540.3	1540.3	Acquire and reforest approximately 1000 acres of land. Reforest another 540 acres for a total of 1540 acres. This would include creating a 174 acre wetland.	All of the land (1,000 acres purchased and 540 already Corps owned) has been purchased and fenced as required. There has been little success in the survival of plantings.	2015
SWD	SWG	Brays Bayou, TX	70	65	27.9	27.9	Construction of 27.9 acres of wetlands in Willow Waterhole Detention Basin in project area.	20 acres of wetlands at Willow Waterhole Detention Basin have been constructed.	2020
SWD	SWG	Houston-Galveston Navigation Channel, TX	100	85	172.9	172.9	172AC of oyster cultch (hard substrate for oyster reef development) and 0.43AC of colonial water bird rookery habitat require mitigation.	172AC of oyster cultch has been placed in Galveston Bay and is monitored by Texas Parks & Wildlife Dept. Market-sized oysters found growing on pads. Alexander Island breakwater constructed and tree habitat replaced and in use.	2010 (a)
SWD	SWL	Arkansas River Navigation Channel, AR&OK	3	4	558.1	15.1	130 acres of Bottomland Forest and 248 acres of Marsh restoration. Relocation of approximately 30K mussels to Lake Dardanelle, relocation of approximately 60K mussels to Pool 2 and then using these individuals to recolonize the Canal. Throughout MKARNS, only scattered beds and patches of mussels were noted. Mitigation for mussel beds and patches that are located near construction areas will consist relocating bed or patches as needed. Gravel bar surveys in proposed dredging locations indicated that an estimated 165 acres of gravel would be impacted and would require mitigation by relocating or creating gravel bars. 15.1 acre island required for terns.	Although a 15.1 acre marsh and forest island was constructed primarily for terns no other project or mitigation construction has been accomplished.	2020
SWD	SWT	M5-CW Canton, OK, Dam Safety	95	40	220	220	1. Relocation of existing prairie dog town 2. Replacement of lands licensed to OK Dept of Wildlife Conservation.	Acquisition of lands similar in function to those impacted. Lands to be added to State wildlife agency license area and managed by State for fish and wildlife.	2011
		Footnote							
		(a) means actual date							

Table 3 ANNUAL CONSULTATION ON SUCCESS OF MITIGATION as required by Section 2036 of WRDA 2007

January 2011

<u>Division</u>	<u>District</u>	<u>Project Name</u>	<u>Mitigation % Physically Complete</u>	<u>Mitigation Requirements</u>	<u>Consultation Date and Agency Name</u>	<u>Evaluate Ecological Success to Date</u>	<u>Likelihood of Success</u>	<u>Projected Timeline for Achieving Success¹</u>	<u>Recommendations for improving the likelihood of success made during consultation</u>
LRD	LRC	Little Calumet River, IN	27	A total of 435 acres are required to meet the compensatory mitigation requirement for the Little Calumet River project. Mitigation includes establishing functional bottomland hardwood forests and emergent wetlands offsite.	02-OCT-10 Indiana Department of Natural Resources	Annual rate of return of mixed plant assemblage was determined to be successful for the Little Cal area, with rates from reseeding higher than expected. Hobart Marsh area including the bottomland hardwood forest has the potential for meeting the same high success rate once the mitigation is completed.	Medium	2016	None provided.
LRD	LRL	Cincinnati Metro Region, Duck Creek, OH	100	Riparian restoration (23 acres total) which includes reforestation (bottomland hardwood tree plantings) and placement of wood duck and squirrel nesting boxes.	30-NOV-10 Hamilton County Parks and City of Cincinnati, Ohio - OH Reynoldsburg Field Office OH - OH	Greater than 70% survival after replanting areas that initially failed to meet contract specifications. Extra treatments for invasive species were applied as needed.	High	2015	Recommendations of consultation were to control growth of invasive plant species at mitigation site and monitor growth of broad leaved deciduous trees
LRD	LRL	Olmsted Lock and Dam, KY	100	Purchase of mitigation lands, increased water management capability on Ballard Wildlife Management Area (WMA), KY, monitoring of bald eagles and waterfowl populations, monitoring of freshwater mussel populations, support of development of restoration and propagation methodologies for mussels, and restoration of former clay mine site that serves as part of construction site.	01-APR-10 Kentucky Field Office - KY - KY Kentucky Department of Fish and Wildlife Resources - KY	Constructed mitigation functions progressing. Mussels have been reduced somewhat by impacts of the invasive zebra mussel. Bald eagle nests and wintering populations have increased. Migratory waterfowl numbers have increased.	High	2023	Continue activities as scheduled.
LRD	LRP	Lower-Mon-234 (Locks and Dams 2, 3 and 4, Monongahela River Project), WV & PA	25	Construction of design features into the Braddock Dam to increase water aeration and increase dissolved oxygen concentration in receiving water. A total of 396 acres are required to meet the compensatory mitigation requirement for the dams 2, 3, and 4 project on the Lower Monongahela River. Mitigation includes restoring shallow riverine habitat, establishing emergent wetlands, and ecosystem restoration of an abandoned strip mine.	28-FEB-06 USEPA Wheeling Field Office - WV Pennsylvania Department of Environmental Protection Pennsylvania Fish and Boat Commission USFWS Field Office - PA - PA Pennsylvania Game Commission - PA	Braddock Dam water quality gate is operating as designed for low flow reaeration. Meeting the success criteria for this requirement. Remaining mitigation activities are pending project implementation.	Medium	2030	Future consultation on mitigation closer to future construction

Table 3

ANNUAL CONSULTATION ON SUCCESS OF MITIGATION as required by Section 2036 of WRDA 2007

January 2011

<u>Division</u>	<u>District</u>	<u>Project Name</u>	<u>Mitigation % Physically Complete</u>	<u>Mitigation Requirements</u>	<u>Consultation Date and Agency Name</u>		<u>Evaluate Ecological Success to Date</u>	<u>Likelihood of Success</u>	<u>Projected Timeline for Achieving Success¹</u>	<u>Recommendations for improving the likelihood of success made during consultation</u>
MVD	MVN	Lake Ponchartrain 30000-Jefferson, LA	100	Construct breakwaters to protect wetlands and dredged material deposition to restore wetlands - 1,100 average annual acres total preserved/restored	31-MAR-07	USFWS - LA	Site visit documented mitigation failure. A new plan and Environmental assessment have been developed and will be implemented upon approval.	Due to failure a new plan has ben developed	2014	None provided.
MVD	MVN	Larose to Golden Meadow (1985 Mitigation), LA	100	The required and authorized mitigation for the Larose to Golden Meadow 1985 Hurricane Protection Project calls for construction of a levee and water-control structure along the eastern boundary of the mitigation site; herein referred to as the Pointe-au-Chien WMA Mitigation Site. These features will serve to enhance the functional values of wetlands in the mitigation site.	18-NOV-10	Louisiana Department of Wildlife and Fisheries	All water control structures and levee construction was completed in May 2002, thereby meeting the primary success criteria. However, ecological success was set back due to hurricanes. It is estimated full success will be achieved in 2 years barring additional hurricane damage.	High	2013	None provided.
MVD	MVR	Illinois Waterway Dredged Material Management Plan (LaGrange Pool - Beardstown), IL	100	Three small, shallow breeding ponds were constructed. Each pond is less than one-half acre and less than 2 feet deep.	16-JUN-10	Illinois Department of Natural Resources	Very successful. Full success was achieved during May of 2010.	High	2010 (a)2	None provided.
MVD	MVR	Mississippi River Dredged Material Management Plan (Pool 18-Keithsburg), IL	100	Wetland impacts from Placement Site 3 (Willow Bar Island Temporary Transfer Site) were mitigated at a 13.9-acre wetland site adjacent to Huron Chute and upstream from Hawkeye-Dolbee Diversion Channel. Site 13 (Kingston Bar III) were mitigated at an 11.3-acre swale adjacent to the placement site. Mitigation efforts included placing and replanting the placement site, creating ephemeral pools, and planting trees within the site.	13-JAN-10	Mark Twain National Fish and Wildlife Refuge	Completely successful.	High	2010 (a)	None provided.

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NAD	NAN	NY & NJ Harbor (50') NY&NJ	100	The construction of approximately 57 acres of tidal wetlands over 4 sites (out of kind) within the NY/NJ Harbor estuary was required. Mitigation on lands owned by National Park Service, Towns of Woodbridge and Carteret, NJ and New York State.	15-JUN-10	New York Department of Environmental Conservation NY	Based on site visits and quarterly monitoring, the interagency monitoring team review the results and determine if adaptive management is necessary. Mitigation at all sites is scheduled to be on target. Presently would estimate 80% on target for all four sites. At Elders Point East, high and low marsh vegetation is flourishing and promoting the return of wildlife. The water flow at the Joseph P. Medwick Park site has been reestablished and native fish and wildlife have returned. In addition to the tidal flow returning to the Key Span site, the area is also providing vegetation for nesting birds. Project at Woodbridge Creek has restored the water flow to the site and as a result fish species are creating nurseries there, and bird and wildlife habitats are returning to the site.	High	2013	None provided.
				30-JUN-10	New Jersey Department of Environmental Protection					
NWD	NWO	Perry Creek, Sioux City, IA	100	Mitigation plantings included 33 acres of native grass species, and 13 acres of tree and shrub plantings.	03-JAN-11	Field Supervisor - IA	Vegetation planted but contrary to management plan, was mowed instead of being allowed to grow to natural height.	High	2011	Allow plants to grow
NWD	NWP	Columbia River Channel Improvement - Navigation, OR & WA	99	Mitigation for loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. Issues surrounding mitigation site acquisition have now been resolved and mitigation is underway: 272 acres of mitigation at the following sites: Chumley, Webb, and Cottonwood.	20-JAN-10	US Fish and Wildlife Service	All three mitigation sites are visited by the multi-agency adaptive management team of federal and state agencies which tour the sites annually. This team will continue to monitor the successes of these three project to ensure projects meet their intended purpose.	High	2013	None provided.
POD	POA	False Pass Harbor, AK	100	Mitigate impacts for loss of shallow subtidal marine habitat by breaching breakwater and placing 25 reef balls and monitoring recolonization by benthic species; monitor project effects on waterfowl abundance, distribution, and exposure to petroleum.	30-JUN-10	Anchorage Ecological Field Office, US Fish and Wildlife Service - AK	Monitoring indicates functional success for recolonization of benthic communities on breakwaters and reefballs. Monitoring to date of waterfowl indicate ecologically success likely. Monitoring of petroleum and eider exposure is complete and shows no project effect.	High	2011	None provided.

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POD	POA	Seward Harbor, AK	100	Dredged material placement was required to create approximately 5 acres of soft-bottom habitat to mitigate loss of similar habitat used by shellfish and other invertebrates.	09-DEC-10	Anchorage Ecological Field Office, US Fish and Wildlife Service - AK	Success is assumed due to normally rapid/consistent recolonization as verified in other areas with similar conditions. A site inspection conducted 7 December 2010 verified that the constructed soft-bottom is as designed.	High	2010 (a)	None provided.
POD	POA	Unalaska Harbor, AK	100	Compensatory in-kind mitigation is required to replace nearshore and intertidal habitat for sea otters, seals, waterfowl, and benthic communities by creating 30 rubble/boulder reef structures comprising approximately 0.2 acres in the intertidal and nearshore subtidal habitat lost during harbor construction. Monitoring is required to determine colonization by key marine organisms. Monitoring is also required to determine whether the project affects movement, abundance, or distribution of Steller's eiders or northern sea otters or is otherwise causing a taking of those species.	30-JUL-10	Anchorage Ecological Field Office, US Fish and Wildlife Service - AK	Success to date is promising. 2010 monitoring indicates that constructed rubble reefs are being colonized by algae at a rate greater than expected. Colonization of the constructed reefs will be monitored two more years and will be completed in the summer of 2012. Post-construction monitoring of sea birds and mammals will begin in the winter of 2011/12 and will continue through the winter of 2012/13.	High	2013	None provided.

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SAD	SAW	Manteo (Shallowbag) Bay, NC	9.6	125 acres of aquatic habitat (oyster reef).	22-SEP-10 North Carolina Oyster Restoration Steering Committee - NC	12 of 125 acres have been constructed thus far in association with completed project components. Relatively low spat fall values and high oyster disease incidence occurred during the three year monitoring period for oyster reefs in the project vicinity (northern Dare County, NC) including the six monitored mitigation sites. At the conclusion of monitoring activity (2000), spat fall values at 4 of 6 sites ranged from 0.07 to 2.5 where 1.0 is considered fully successful. 'Cedar Bush Bay' and 'Nags Head Cove' were considered fully successful. 'Cat Shoal' and 'Old House Rocks' displayed partial degrees of success. 2 of 6 sites (Pea Island and Rodanthe) were not able to be located. As a result of these monitoring results, future reefs will be proposed as high relief reefs.	Medium	2020	None provided.
SAD	SAW	Wilmington Harbor, NC - 96 Act	52.94	<p>Island 13 - Restoration of 30.4 acres of primary nursery (including 3.4 acres of intertidal marsh) on Cape Fear River dredged material disposal island 13.</p> <p>Prevention of Degradation (POD) Lands - Acquisition of 700 acres of riparian wetland habitat buffer on the NE Cape Fear River, including the river shoreline and two tributaries (Tony's and Lagoon Creeks), which serves to protect 29 acres of estuarine primary nursery area.</p> <p>Fish passage at Lock and Dam #1 on the Cape Fear River - Construction of rock rapids on the downstream face of the dam to better facilitate anadromous fish passage upstream.</p>	01-SEP-05 North Carolina Division of Marine Fisheries	<p>Complete success at Island 13 was achieved and consultation completed as of September 2005. The North Carolina Division of Marine Fisheries (NCDMF) determined the Island 13 system displayed functional characteristics similar to natural marshes of the same type.</p> <p>POD lands in their entirety are expected to be acquired in FY 2011. This is a preservation component of the mitigation plan and over 90% of the area has been secured.</p> <p>Fish Passage at Lock and Dam #1 on the Cape Fear River is not yet complete.</p>	High	2013	None provided.

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SPD	SPK	American River - Bridge, CA	75	Mitigation required included 50 acres of oak woodland habitat, 6 acres of riparian habitat, 2.5 acres of seasonal wetland and 14.2 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle.	16-JUN-10	U.S. Fish and Wildlife Service - Corps Project Branch - CA	The Goethe East Site (14.2 acres) of valley elderberry longhorn beetle habitat, has been installed for a few years now, and the required surveys relative to plant survival criteria indicate that with a few more years of watering the site will meet the indicators for success, to include plant abundance and health. The Rossmoor Bar (oak woodland and riparian - 56 acres) site is currently being planted, but with application of lessons learned from other sites, success is expected.	High	2015	None provided.
SPD	SPK	American River - Common Features (American River Common Features), CA	100	The majority of impacts and associated mitigation for this project relate to the Federally listed valley elderberry longhorn beetle (VELB). Because they are host to this species, impacts to elderberry shrubs require mitigation under the ESA. Mitigation for this project has been accomplished, in most cases, on the consolidated sites referred to as the Goethe mitigation sites.	15-JUN-10	Sacramento Field Office - CA	All mitigation has been implemented for the Common Features Project. Because some sites are not performing well, they are all being maintained by the Corps until they can be handed over to the non-Federal Sponsor. Both the Mayhew site and the RM 11.5 sites should be handed over in the next year. One lesson learned is that watering of the sites needs to be extended beyond the original 3 year establishment period, because once water is removed site survival seems to decrease.	High	2013	None provided.
SPD	SPK	American River - Folsom Outlet Mods (Joint Federal Project - Auxiliary Spillway), CA	90	Mitigation for the Joint Federal Project Flood Risk Management impacts include 1.8 acres riparian habitat, 0.21 acres chaparral habitat, and 1.38 acres oak woodland. Mitigation for the Folsom Dam Modifications Staging Area includes 7.73 acres of habitat for the Federally listed Valley Elderberry Longhorn Beetle (VELB), 6.77 acres oak woodland, and 0.53 acres chaparral habitat.	30-JUN-10	Sacramento field office - CA	Mitigation at sites 11.5 and Sailor Bar are on track to be successful based on survival rates, increased density and plant vigor. Planting at Rossmoor Bar (1.38 acres of oak woodland) has just been completed, the site is expected to succeed.	Medium	2017	None provided.

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SPD	SPK	Glenn Colusa Gradient Facility / RM208, CA	100	(1) Short-term degradation to riverine habitat restored through natural processes following construction; (2) compensatory mitigation for loss or degradation of Shaded Riverine Aquatic (SRA) cover, riparian and elderberry habitat (supporting Federally listed Valley Elderberry Longhorn Beetle) by installing 34.3 acres of offsite and onsite riverine and riparian habitats (5.3 acres of shaded riverine aquatic cover habitat and 29 acres of riparian/elderberry habitat); and (3) providing suitable site conditions for natural reestablishment of emergent wetland habitat temporarily disturbed by construction.	04-JAN-10 US Fish and Wildlife Service National Marine Fisheries Service Southwest Region	Resource agencies consulted agree, based on surveys for plant growth, health and canopy cover criteria, that all mitigation areas except for the Gradient Facility onsite have achieved mitigation success. The Gradient Facility onsite area is expected to fulfill all success criteria in 2011 with the successful establishment of 800 linear feet of willows along the riverbank to provide SRA cover with at least 60% canopy cover.	High	2011	Replanting of areas to replace plants lost by erosion
SPD	SPK	Guadalupe River San Jose CA (Guadalupe River Project, Downtown San Jose, California)	100	Mitigation consists of monitoring (annual mitigation and monitoring reports published by sponsor and evaluated by Corps/agencies); adaptive management (annual meetings held with sponsor and agencies); and compensatory mitigation. Said mitigation, all installed, includes 21 acres of riparian (woody) vegetation, 23,895 linear feet of Shaded Riverine Aquatic (SRA) habitat and 25,190 square feet of new spawning habitat from placement of gravel and cobble in the river.	16-JUN-10 Ecological Services-Sacramento Area Office - CA	High mitigation success has been achieved to date based on surveys for tree and shrub survival and density, and as documented in Mitigation and Monitoring Reports. The presence of transients/homeless is damaging mitigation sites, especially understory and shade areas.	High	2010 (a)	None provided.

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SPD	SPK	Kaweah Spillway Enlargement, CA	90	Based on adverse impacts associated with project construction, mitigation was required to include installation of 40 acres of riparian habitat, 7.19 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle (VELB), and preservation of 4,388 acres of oak woodland and 1,300 acres of seasonal waterfowl habitat.	13-APR-10 FWS Corps Projects Branch Sacramento Field Office - CA	At the Davis Ranch site,(4,388 acres) success criteria was met when the site was purchased by the non-Federal sponsor and the O&M manual was finalized. The site has been turned over to the non-Federal sponsor. The Dry Creek site (40 acres) has had a couple of replants due to fire and grazing damage. The site is also on its way to meeting success criteria to include canopy density and vigor, areal cover and habitat structure. Tulare Lakebed Site (1,300 acres) has met the success criteria and has been turned over to the sponsor. The elderberry site consists of 4 individual sites planted at various times between 2001 and 2006. All sites are on their way to meeting the 60% survival criteria identified in the ESA Biological Opinions.	High	2014	-keep on with current inspections and surveys
SPD	SPK	Napa River, Napa, CA	85	The project did not include USACE-designated mitigation per se, but rather construction of site features in a manner avoiding or limiting adverse habitat impacts. All habitat creation, of 8 habitat types, was based on bank stabilization and vegetation establishment.	01-APR-08 US FWS-Ecological Services-Sacramento Area Office - CA	Subject native plantings have been highly successful to date. Some invasives have shown up, but have been and will be controlled by the project sponsor to sustain required habitat values. Success has been measured in terms of vegetative cover percentage, and percentage of surviving native plants, where 80% is the success threshold.	High	2016	-monitor and eradicate new infestations of invasive plants

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SPD	SPL	San Luis Rey River, CA	70	Mitigation (about 241 ac) is required for temporary and permanent impacts to waters of the U.S., waters of the State of California, riparian habitat, and vireo and southwestern willow flycatcher habitat. Mitigation entails preservation and restoration of riparian and vireo and flycatcher suitable habitat onsite and offsite of the project area. Maintenance of fish passage beneath bridges is required; boulders beneath bridges will be removed/reconfigured. An adaptive habitat management plan is required; will cover the project area, including areas to be preserved/restored and the flood risk management flow conveyance zone, and an off-site mitigation site.	01-FEB-08	California Department of Fish and Game	Riparian habitat has been established throughout most of the project area. Criteria for percent cover, density, and diversity are being met in most areas, however, invasive exotic plant species are present. Invasive exotic plant eradication efforts are in-progress. Preconstruction mitigation requirement for occupied vireo habitat has been met on-site (32 ac).	High	2017	None provided.
SPD	SPL	Santa Ana River Mainstem, CA	75	Restore 92 acres salt marsh, 5 acres freshwater marsh, ~1,257 acres of riparian habitat (mostly through non-native vegetation removal, with monitoring), and 11 acres perennial stream; trapping of nest-predating cowbirds; wildlife corridor improvements; develop and implement Habitat Management Plan for 1,100 floodplain acres downstream of Prado Dam; and develop and implement Multi-Species Habitat Management Plan for 764 acre preserve area downstream of Seven Oaks Dam.	15-JUN-10	Carlsbad Field Office - CA	To date all mitigation sites have met or exceeded expectations. 92 acres salt marsh and 5 acres freshwater marsh have been fully restored. Success criteria were met in that initial plantings survived through establishment period, and areas have continued to function as designed. Arundo biomass removed from over 1000 acres of floodplain. Cowbird trapping program underway. Floodplain acreage acquired downstream of Prado and Seven Oaks Dams and Habitat Management Plan developed for downstream of Prado. Fairview Park plant installation has been completed, but the vegetation has not yet matured to meet overall success criteria. Additional mitigation features will be added as construction continues.	High	2015	None provided.

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SWD	SWF	Waco Lake Pool Raise	60	Acquire and reforest approximately 1000 acres of land. Reforest another 540 acres for a total of 1540 acres. This would include creating a 174 acre wetland.	01-OCT-09	Texas Parks and Wildlife Department Arlington Ecological Field Office - TX	The current survival rate of planting has been close to zero. The City has changed methodologies for planting and implemented different water methods for the initial establishment of trees, but with little success. The City and the Corps will have to undergo additional consultation in FY11 to determine if the mitigation as proposed is sustainable or what can be done to make it sustainable. Once this is determined, the monitoring will have to be extended to ensure mitigation success.	Medium	2015	None provided.
Footnotes										
1. Evaluation of all constructed mitigation operated and maintained by a non-Federal sponsors transitions to the Corps Inspection of Completed Projects Program.										
2. (a) Date mitigation succes was achieved										