

**ARMY CIVIL WORKS PROGRAM
FY 2017 WORK PLAN - INVESTIGATIONS**

STATE	DIVISION	BUSINESS PROGRAM 1/	STUDY OR PROGRAM	FY 2017 EXPLANATORY STATEMENT	ADDITIONAL WORK PLAN AMOUNT	TOTAL FY 2017 ALLOCATION	LINE ITEM OF ADDITIONAL FUNDING 1/	SUMMARY OF WORK TO BE ACCOMPLISHED WITH TOTAL FY 2017 ALLOCATION
AK	POD	NHD	UNALASKA (DUTCH) HARBOR, AK	\$500,000		\$500,000		Continue feasibility study
AK	POD	FDRR	LOWELL CREEK TUNNEL FLOOD DIVERSION, AK	\$400,000		\$400,000		Continue feasibility study
AK	POD	NHD	WHITTIER BREAKWATER, AK		\$250,000	\$250,000	5	Complete feasibility study
AL	SAD	NHD	MOBILE HARBOR, AL	\$1,246,000	\$378,500	\$1,624,500	5	Continue General Reevaluation Report
AL	SAD	FDRR	VILLAGE CREEK, AL		\$500,000	\$500,000	2	Continue feasibility study
AR	SWD	NIH	THREE RIVERS, AR	\$580,000	\$270,000	\$850,000	6	Continue feasibility study
AZ	SPD	FDRR	LITTLE COLORADO RIVER (WINSLOW), AZ		\$229,000	\$229,000	2	Continue feasibility study
AZ	SPD	FDRR	LOWER SANTA CRUZ RIVER, AZ	\$400,000		\$400,000		Continue feasibility study
CA	SPD	ENR	ALISO CREEK MAINSTEM, CA		\$325,000	\$325,000	9	Continue feasibility study
CA	SPD	FDRR	AMERICAN RIVER (COMMON FEATURES), CA		\$2,823,000	\$2,823,000	1	Initiate preconstruction engineering and design
CA	SPD	FDRR	CORTE MADERA CREEK, CA		\$400,000	\$400,000	2	Continue the General Reevaluation Report
CA	SPD	ENR	DRY CREEK (WARM SPRINGS) RESTORATION, CA	\$425,000		\$425,000		Continue feasibility study
CA	SPD	ENR	EAST SAN PEDRO BAY ECOSYSTEM RESTORATION, CA		\$275,000	\$275,000	8	Continue feasibility study
CA	SPD	ENR	LOS ANGELES RIVER ECOSYSTEM RESTORATION, CA	\$400,000		\$400,000		Continue preconstruction engineering and design
CA	SPD	FDRR	PAJARO RIVER AT WATSONVILLE, CA (GENERAL REEVALUATION REPORT)		\$50,000	\$50,000	1	Re-scope the General Reevaluation Report
CA	SPD	NHD	PORT OF LONG BEACH NAVIGATION IMPROVEMENTS, CA	\$400,000		\$400,000		Continue feasibility study
CA	SPD	FDRR	SACRAMENTO RIVER BANK PROTECTION (PHASE 3), CA	\$625,000	\$1,018,000	\$1,643,000	2	Continue the General Reevaluation Report
CA	SPD	NHD	SAN FRANCISCO BAY TO PORT OF STOCKTON, CA (GENERAL REEVALUATION REPORT)		\$50,000	\$50,000	5	Re-scope the General Reevaluation Report
CA	SPD	FDRR	SAN JOAQUIN RIVER BASIN, LOWER SAN JOAQUIN, CA		\$200,000	\$200,000	1	Complete feasibility study
CA	SPD	FDRC	SOUTH SAN FRANCISCO SHORELINE, CA	\$500,000		\$500,000		Complete preconstruction engineering & design
CA	SPD	FDRR	SUTTER COUNTY, CA		\$400,000	\$400,000	1	Complete preconstruction engineering & design
CA	SPD	FDRR	TULE RIVER BASIN, CA		\$200,000	\$200,000	1	Determine path forward for Post Authorization Change Report for project authorized in WRDA 1999
CA	SPD	ENR	YUBA RIVER FISH PASSAGE, CA (ENGBRIGHT AND DAGUERRE POINT DAMS)	\$590,000	\$223,000	\$813,000	8	Continue feasibility study
CO	NWD	ENR	ADAMS AND DENVER COUNTIES, CO	\$175,000		\$175,000		Continue feasibility study
CT	NAD	NHD	NEW HAVEN HARBOR DEEPENING, CT	\$500,000		\$500,000		Continue feasibility study
DC	NAD	FDRC	THE DISTRICT OF COLUMBIA, DC	\$300,000		\$300,000		Continue the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
DE	NAD	FDRC	DELAWARE INLAND BAYS AND DELAWARE BAY COAST, DE	\$300,000		\$300,000		Initiate the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
FL	SAD	NHD	PORT EVERGLADES HARBOR, FL		\$2,800,000	\$2,800,000	5	Complete preconstruction engineering & design
GA	SAD	ENR	PROCTOR CREEK, GA	\$200,000	\$500,000	\$700,000	8	Continue feasibility study
GA	SAD	ENR	SAVANNAH RIVER BELOW AUGUSTA ECOSYSTEM RESTORATION, GA	\$170,000		\$170,000		Study is inactive.
GA	SAD	FDRR	SWEETWATER, GA	\$500,000		\$500,000		Continue Feasibility Study
IA	NWD	ENR	GRAND RIVER BASIN, IA & MO	\$500,000		\$500,000		Continue feasibility Study
IL	LRD	FDRR	DU PAGE RIVER, IL	\$400,000		\$400,000		Continue feasibility study
IL	LRD	ENR	INTERBASIN CONTROL OF GREAT LAKES MISSISSIPPI RIVER AQUATIC NUISANCE SPECIES, IL, IN, OH & WI	\$2,600,000		\$2,600,000		Continue feasibility study
KY	LRD	NIL	GREEN AND BARREN RIVERS, KY		\$135,000	\$135,000	4	Complete disposal report for deauthorized project
LA	MVD	NIH	CALCASIEU LOCK, LA		\$225,000	\$225,000	6	Complete preconstruction engineering and design
LA	MVD	NIH	INNER HARBOR NAVIGATION CANAL LOCK, LA	\$550,000		\$550,000		Continue General Reevaluation Report
LA	MVD	ENR	LOUISIANA COASTAL AREA ECOSYSTEM RESTORATION, LA	\$520,000		\$520,000		Complete Mississippi River Hydrodynamic Model/Delta Management Study
LA	MVD	NHD	MISSISSIPPI RIVER SHIP CHANNEL, GULF TO BATON ROUGE, LA	\$450,000		\$450,000		Complete General Reevaluation Report to validate economic justification of authorized project
MD	NAD	ENR	CHESAPEAKE BAY COMPREHENSIVE PLAN, MD, PA & VA	\$1,460,000		\$1,460,000		Complete Watershed Assessment
MI	LRD	NHD	SAGINAW RIVER DEEPENING, SAGINAW, MI		\$100,000	\$100,000	5	Complete feasibility study
MN	MVD	ENR	MINNESOTA RIVER WATERSHED STUDY, MN & SD (MINNESOTA RIVER AUTHORITY)	\$873,000		\$873,000		Complete feasibility study
MO	NWD	FDRR	KANSAS CITIES, MO & KS (PHASE II)		\$1,675,000	\$2,812,000	1	Complete preconstruction engineering and design
MO	NWD	FDRR	KANSAS CITIES, MO & KS (PHASE II)		\$1,137,000		2	
MO	MVD	ENR	ST LOUIS MISSISSIPPI RIVERFRONT, MO & IL	\$150,000	\$350,000	\$500,000	9	Complete feasibility study

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NJ	SAD	FDRC	BOGUE BANKS, CARTERET COUNTY, NC		\$1,300,000	\$1,300,000	3	Complete preconstruction engineering and design
ND	MVD	FDRR	SOURIS RIVER BASIN, ND	\$500,000	\$400,000	\$900,000	2	Continue Feasibility Study
ND	MVD	ENR	RED RIVER OF THE NORTH BASIN, ND, MN, SD & MANITOBA, CANADA	\$496,000		\$496,000		Complete the Comprehensive Watershed Management Plan
NJ	NAD	FDRC	NEW JERSEY BACKBAY, NJ	\$575,000		\$575,000		Continue the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
NJ	NAD	FDRR	RAHWAY RIVER BASIN, NJ (UPPER BASIN)	\$379,000		\$379,000		Complete feasibility study of Upper Basin (fluvial portion of study); Tidal portion of Rahway River Basin study is funded using P.L. 113-2 Supplemental funds.
NM	SPD	ENR	ESPANOLA VALLEY, RIO GRANDE AND TRIBUTARIES, NM		\$115,000	\$115,000	8	Continue feasibility study
NM	SPD	FDRR	MIDDLE RIO GRANDE FLOOD PROTECTION, BERNALILLO TO BELEN, NM		\$366,000	\$366,000	2	Complete the General Reevaluation Report
NY	NAD	ENR	HUDSON RIVER HABITAT RESTORATION, NY		\$295,000	\$295,000	8	Continue feasibility study
NY	NAD	FDRC	NASSAU COUNTY BACK BAYS, NY	\$300,000		\$300,000		Continue the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
NY	NAD	FDRC	NEW YORK - NEW JERSEY HARBOR & TRIBUTARIES, NY & NJ	\$575,000		\$575,000		Continue the feasibility study recommended in the North Atlantic Coastal Comprehensive Study
OK	SWD	ENR	ARKANSAS RIVER CORRIDOR, OK	\$415,000		\$415,000		Continue feasibility study
OR	NWD	WTR	WILLAMETTE RIVER BASIN REVIEW, OR		\$292,000	\$292,000	8	Complete feasibility study
PA	LRD	NIH	UPPER OHIO RIVER, ALLEGHENY AND BEAVER COUNTIES, PA		\$2,020,000	\$5,525,000	4	Initiate preconstruction engineering and design, including additional economic analysis
PA	LRD	NIH	UPPER OHIO RIVER, ALLEGHENY AND BEAVER COUNTIES, PA		\$3,505,000		6	
PR	SAD	ENR	CANO MARTIN PENA, PR	\$750,000		\$750,000		Continue preconstruction engineering & design
PR	SAD	NHD	SAN JUAN HARBOR IMPROVEMENT STUDY, PR	\$730,000		\$730,000		Continue feasibility study
TX	SWD	FDRC	COASTAL TEXAS PROTECTION AND RESTORATION STUDY, TX	\$1,825,000		\$1,825,000		Continue feasibility study
TX	SWD	NIH	GIWW - BRAZOS RIVER FLOODGATES & COLORADO RIVER LOCK, TX	\$1,000,000	\$700,000	\$1,700,000	6	Continue feasibility study
TX	SWD	NIH	GIWW, HIGH ISLAND TO BRAZOS RIVER, TX		\$200,000	\$200,000	6	Complete preconstruction engineering & design
TX	SWD	NIH	GIWW, MATAGORDA BAY, TX		\$100,000	\$100,000	6	Complete preconstruction engineering & design
TX	SWD	NHD	HOUSTON SHIP CHANNEL, TX	\$1,750,000	\$464,500	\$2,214,500	5	Continue feasibility study
TX	SWD	ENR	JEFFERSON COUNTY SHORE PROTECTION, TX		\$900,000	\$900,000	8	Continue feasibility study
TX	SWD	NHD	MATAGORDA SHIP CHANNEL (WIDENING AND DEEPENING), TX	\$500,000		\$500,000		Continue feasibility study
TX	SWD	ENR	RESACAS AT BROWNSVILLE, TX		\$75,000	\$900,000	8	Continue feasibility study
TX	SWD	ENR	RESACAS AT BROWNSVILLE, TX		\$825,000		9	
TX	SWD	NHD	SABINE NECHES WATERWAY, TX		\$557,000	\$557,000	5	Initiate preconstruction engineering and design
TX	SWD	FDRR	SABINE PASS TO GALVESTON BAY, TX		\$60,000	\$60,000	1	Complete feasibility study
VA	NAD	NIL	ATLANTIC INTRACOASTAL WATERWAY BRIDGE REPLACEMENT AT NORTH LANDING, VA		\$400,000	\$400,000	4	New Start: Initiate feasibility study
VA	NAD	FDRC	CITY OF NORFOLK, VA	\$575,000		\$575,000		Continue feasibility study
VA	NAD	NHD	NORFOLK HARBOR AND CHANNELS, VA (DEEPENING)	\$350,000	\$400,000	\$750,000	5	Complete the General Reevaluation Report
WA	NWD	NHD	SEATTLE HARBOR, WA	\$500,000		\$500,000		Complete feasibility study
WA	NWD	FDRR	PUYALLUP RIVER, WA		\$450,000	\$450,000	2	Complete feasibility study
XX	ERDC	RI	ACCESS TO WATER DATA	\$360,000		\$360,000		Provide access to water resources data and related water quality data to the public
XX	ERDC	FRM	COASTAL FIELD DATA COLLECTION	\$1,000,000		\$1,000,000		Operating and maintaining coastal field research facility to develop coastal flood data. Systematically measure, analyze, and assemble long-term coastal data that field offices use to accomplish the Corps mission in coastal navigation and storm damage reduction
XX	IWR	NAV	COMMITTEE ON MARINE TRANSPORTATION SYSTEMS	\$90,000		\$90,000		Fund Corps participation on the CMTS and support publication of related reports
XX	HQ	RI	COORDINATION WITH OTHER WATER RESOURCES AGENCIES	\$455,000		\$455,000		Participation in the North American Waterfowl Management Program; National Estuary Program; and Regional Planning Bodies of the National Ocean Council. Review of environmental impacts resulting from installation of USDA project features. Review and determination of the flood control benefits of studies conducted by the Bureau of Reclamation for proposed Bureau of Reclamation projects.

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XX	HQ	NAV	Disposition of Completed Projects	\$1,000,000		\$1,000,000		Disposal studies for Corps projects: Allegheny River Locks 5-9, PA (\$350,000); Kentucky River Locks 1-4, KY (\$284,000); Upper Monongahela River, PA (\$350,000); West Pearl, LA (\$377,000); Willamette Falls, OR (\$420,000); remaining funding is to be determined per FY 2017 Explanatory Statement.
XX	IWR	RI	FERC LICENSING	\$100,000		\$100,000		Conduct reviews of Federal Energy Regulatory Commission (FERC) preliminary permit & license applications for development of hydroelectric power
XX	IWR	FRM	FLOOD DAMAGE DATA	\$220,000		\$220,000		Collect and maintain basic flood damage data to support research efforts and to inform specific project studies
XX	HQ	FRM	FLOOD PLAIN MANAGEMENT SERVICES (HQ MASTER AMSCO)	\$15,000,000	\$300,000	\$15,300,000	3	Provide site-specific flood and flood plain data and assistance to State and local communities; update Hurricane Evacuation software
XX	IWR	FRM	HYDROLOGIC STUDIES	\$500,000		\$500,000		Collect and study basic hydrologic data for major storm events or special hydrologic processes; Develop flood inundation data for improved real-time flood forecasting
XX	HQ	RI	INTERAGENCY AND INTERNATIONAL SUPPORT	\$300,000		\$300,000		Support other Federal agencies, international organizations and foreign governments to address problems of national significance, and to collaborate with these entities
XX	HQ	RI	INTERAGENCY WATER RESOURCE DEVELOPMENT	\$175,000		\$175,000		Coordinate with potential non-Federal sponsors
XX	IWR	FRM	INTERNATIONAL WATER STUDIES	\$125,000		\$125,000		Participation in and support of boundary water treaties and related international agreements between the United States and Canada
XX	IWR	FRM	INVENTORY OF DAMS	\$400,000		\$400,000		Maintain and administer the National Inventory of Dams database and web site
XX	IWR	FRM	NATIONAL FLOOD RISK MANAGEMENT	\$5,000,000	\$150,000	\$5,150,000	3	Continue flood risk management coordination actions and plan development at the National, Regional and State levels and participate in state level intergovernmental teams to support states and local communities address flood hazard mitigation priorities
XX	IWR	FRM	NATIONAL SHORELINE MANAGEMENT STUDY	\$400,000	\$1,000,000	\$1,400,000	3	Support the Coastal Systems Portfolio Initiative
XX	HQ	RI	PLANNING ASSISTANCE TO STATES (HQ MASTER AMSCO)	\$6,750,000		\$6,750,000		Provide planning and technical assistance to States and local communities for a wide variety of water resource efforts, including watershed activities benefitting environmental restoration, flood risk management, and other watershed resources
XX	HQ	RI	PLANNING SUPPORT PROGRAM	\$3,000,000		\$3,000,000		Support Planning Associates Program, Planning Centers of Expertise, and Planning Modernization efforts
XX	IWR	FRM	PRECIPITATION STUDIES (NATIONAL WATER SERVICE)	\$200,000		\$200,000		Conduct hydro-meteorological studies coordination/support with the National Weather Service
XX	ERDC	RI	REMOTE SENSING / GEOGRAPHIC INFORMATION SYSTEM SUPPORT	\$75,000		\$75,000		Provide technical support within USACE for remote sensing and GIS
XX	ERDC	RI	RESEARCH AND DEVELOPMENT	\$22,000,000		\$22,000,000		Take advantage of rapidly developing technologies and techniques that will promote significant monetary savings and greater reliability, safety, enhanced efficiency, and environmental sustainability in planning, design, construction, operation and maintenance of civil works activities, which include Navigation (including Hydropower); Flood and Coastal Storm Damage Reduction; Emergency Management, Water Supply, and Recreation; and Environmental (including Regulatory)
XX	ERDC	RI	SCIENTIFIC AND TECHNICAL INFORMATION CENTERS	\$47,000		\$47,000		Gather and disseminate information as required by P.L. 99-802, Federal Technology Transfer Act of 1986
XX	HQ	RI	SPECIAL INVESTIGATIONS AND REPORTS	\$1,300,000		\$1,300,000		Support efforts on requests from sources outside the Corps of Engineers, for information relating to unauthorized projects and other unauthorized and unfunded projects and/or activities, and which are not accomplished with a view toward determining whether a project can be developed.
XX	IWR	FRM	STREAM GAGING (U.S. GEOLOGICAL SURVEY)	\$550,000	\$200,000	\$750,000	1	Reimburse USGS for operation and maintenance of 2,500 stream gaging stations and data collection
XX	IWR	NAV	TRANSPORTATION SYSTEMS	\$985,000	\$2,445,000	\$3,430,000	4	Fund information and technical services and support for navigation projects; Update Regional Economic System Modeling tool
XX	HQ	RI	TRIBAL PARTNERSHIP PROGRAM	\$1,750,000		\$1,750,000		Funds will be used to initiate, continue, and complete studies with Tribes and to build strategic partnerships

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XX	ERDC	RI	TRI-SERVICE CADD/GIS TECHNOLOGY CENTER	\$251,000		\$251,000		Develop and publish geospatial standards
			Grand Total	\$88,967,000	\$32,033,000	\$121,000,000		

1/ KEY:		Additional Funding
1	FLOOD AND STORM DAMAGE REDUCTION	\$5,608,000
2	FLOOD AND STORM DAMAGE REDUCTION (FLOOD CONTROL)	\$4,500,000
3	FLOOD AND STORM DAMAGE REDUCTION (SHORE PROTECTION)	\$2,750,000
4	NAVIGATION	\$5,000,000
5	NAVIGATION (COASTAL AND DEEP-DRAFT)	\$5,000,000
6	NAVIGATION (INLAND)	\$5,000,000
8	OTHER AUTHORIZED PROJECT PURPOSES	\$2,675,000
9	OTHER AUTHORIZED PROJECT PURPOSES (ENVIRONMENTAL RESTORATION OR COMPLIANCE)	\$1,500,000
P	PRECONSTRUCTION ENGINEERING AND DESIGN	
F	FEASIBILITY PHASE	
FDRC	FLOOD DAMAGE REDUCTION COASTAL	
FDRR	FLOOD DAMAGE REDUCTION RIVERINE	
NHS	SHALLOW DRAFT NAVIGATION	
NHD	DEEP DRAFT NAVIGATION	
NIH	INLAND NAVIGATION	
ENR	ECOSYSTEM RESTORATION	
WTR	WATER REALLOCATION	
RI	REMAINING ITEMS	