



**ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE**

STATE	DIVISION	BUSINESS PROGRAM	PROJECT OR PROGRAM	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY2019 BUDGETED AMOUNT JUSTIFICATION	FY 2019 ADDITIONAL FUNDING JUSTIFICATION
AK	POD	NHD	ANCHORAGE HARBOR, AK	\$9,265,000		\$9,265,000		Funds are being used for commonly performed O&M work.	
AK	POD	NHD	AURORA HARBOR, AK	\$0	\$5,000,000	\$5,000,000	2		Funds will be used for maintenance dredging activities and maintenance of breakwater
AK	POD	ENS, FDRR, REC	CHENA RIVER LAKES, AK	\$6,293,000		\$6,293,000		Funds are being used for commonly performed O&M work.	
AK	POD	NHS	DILLINGHAM HARBOR, AK	\$970,000		\$970,000		Funds are being used for commonly performed O&M work.	
AK	POD	NHS	ELFIN COVE, AK	\$0	\$350,000	\$350,000	5		Funds will be used for maintenance dredging
AK	POD	NHD	HOMER HARBOR, AK	\$770,000		\$770,000		Funds are being used for commonly performed O&M work.	
AK	POD	FDRR	INSPECTION OF COMPLETED WORKS, AK	\$200,000		\$200,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals	
AK	POD	NHS	JUNEAU HARBOR, AK	\$0	\$4,425,000	\$4,425,000	5		Funds will be used for maintenance dredging
AK	POD	NHS	NINILCHIK HARBOR, AK	\$600,000		\$600,000		Funds are being used for commonly performed O&M work.	
AK	POD	NHD	NOME HARBOR, AK	\$2,055,000		\$2,055,000		Funds are being used for commonly performed O&M work.	
AK	POD	NOTH	PROJECT CONDITION SURVEYS, AK	\$750,000		\$750,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe	
AL	SAD	ENS, HYD, JOINT, NIL, REC	ALABAMA RIVER LAKES, AL	\$17,121,000		\$17,121,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Dam Safety formal annual report (\$40,000). Sustainability funds in the amount of \$5,000 will be used to install electric meters. Funds will also be used for specific work activities including Critical Health and Human Safety Infrastructure (\$75,000). The budgeted amount for the project includes \$4,533,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 45%, NAV - 22%, FRM - 18%, and REC - 15%. Funds will also be used for specific work activities including tainter gate mechanical system rehabilitation (\$3,500,000).	
AL	SAD	ENS, NIH, REC	BLACK WARRIOR AND TOMBIGBEE RIVERS, AL	\$23,436,000	\$2,700,000	\$26,136,000	1	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,870,000), placement area maintenance (\$570,000), and formal Dam Safety inspections (\$426,000). Funds will also be used for specific work activities including rehabilitating dialing shower house at campground (\$200,000).	Funds will be used for maintenance dredging of Sunflower Cut-off and replacement of Coffeerville lock motor control centers
AL	SAD	NIH	GULF INTRACOASTAL WATERWAY, AL	\$7,765,000		\$7,765,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,370,000), placement area maintenance (\$1,245,000), snag removal (\$315,000) and levee drainage structure replacement (\$1,160,000).	
AL	SAD	FDRR	INSPECTION OF COMPLETED WORKS, AL	\$198,000		\$198,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

AL	SAD	NHD	MOBILE HARBOR, AL	\$22,240,000	\$16,000,000	\$43,190,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$18,789,000) and placement area maintenance (\$1,844,000).	Funds will be used for dredge material removal, river haul out and restoration of capacity to disposal area
AL	SAD	NHD	MOBILE HARBOR, AL		\$4,950,000		3		Donor and Energy Transfer Port
AL	SAD	NOTH	PROJECT CONDITION SURVEYS, AL	\$110,000		\$110,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe	
AL	SAD	FDRR	SCHEDULING RESERVOIR OPERATIONS, AL	\$85,000		\$85,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
AL	SAD	NIH	TENNESSEE - TOMBIGBEE WATERWAY WILDLIFE MITIGATION, AL & MS	\$1,800,000		\$1,800,000		Funds are being used for commonly performed O&M work.	
AL	SAD	ENS, NIH, REC	TENNESSEE - TOMBIGBEE WATERWAY, AL & MS	\$27,996,000		\$27,996,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,364,000), placement area maintenance (\$380,000), Dam Safety inspection reports (\$15,000), disposal area AB12 evaluation (\$100,000), and dewatering, inspection and repair of Whitten Lock (\$1,300,000). Sustainability funds in the amount of \$15,000 will be used to install electric	
AL	SAD	ENS, HYD, JOINT, NIL, REC	WALTER F GEORGE LOCK AND DAM, AL & GA	\$8,927,000		\$8,927,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including invasive species management (\$634,000). The budgeted amount for the project includes \$1,267,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 54% and NAV - 46%	
AL	SAD	NOTH	WATER/ENVIRONMENTAL CERTIFICATION, AL	\$70,000		\$70,000		Funds are being used for commonly performed O&M work.	
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	BEAVER LAKE, AR	\$8,791,000	\$850,000	\$9,641,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, to include replacing handrails on tainter gate landings (\$55,000) and conducting a power review (\$75,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$932,000 shared between business lines as follows: HYD 67.8%, FRM 23.4%, and ENS 8.8%	Funds will be used for dam safety remediation for flood risk management, determine operability during flood operations
AR	MVD	ENS, FDRR, HYD, JOINT, REC, WTR	BLAKELY MT DAM, LAKE OUACHITA, AR	\$9,131,000	\$285,000	\$9,416,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for monitoring and surveying wildlife and other organisms listed as threatened or endangered, monitoring culturally significant sites for disturbances, taking protective measures to prevent disturbances, investigating and reporting disturbances of sites, forest management activities, and monitoring exotic species infestations in Lake Ouachita and the coordination of new water supply agreements. As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$427,000 shared between business lines as follows: HYD-51% and FRM-49%. These joint activities include funding dam safety, periodic inspections, water control data collection, water quality analysis, and hydraulic steel structures inspections.	Funds will be used for advertisement and award of turbine maintenance platform contract and operations for environmental stewardship including cultural resource survey data analysis.
AR	SWD	ENS, FDRR, REC, WTR	BLUE MOUNTAIN LAKE, AR	\$1,870,000		\$1,870,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities to include replacing security gates (\$55,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	BULL SHOALS LAKE, AR	\$7,761,000		\$7,761,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including update arc flash analysis (\$60,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$1,274,000 shared between business lines as follows: HYD – 49.1% and FRM – 50.9%.	
AR	MVD	ENS, FDRR, HYD, JOINT, REC	DEGRAY LAKE, AR	\$7,438,000	\$616,000	\$8,054,000	6	Funds are being used for commonly performed O&M work. As a multiple purpose project with power, the project's budget includes \$562,000 for Joint activities, shared between business lines as follows: REC-33%, FRM-27%, EN-24%, HYD-13%, and NAV-3%.	Funds will be used for water supply agreements and environmental stewardship activities including master plan continuation, shoreline management, cultural resource survey data analysis.
AR	SWD	ENS, FDRR, REC, WTR	DEQUEEN LAKE, AR	\$1,433,000	\$136,000	\$1,569,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including update water control master manual (\$25,000).	Funds will be used for operations for recreation
AR	SWD	ENS, FDRR, REC, WTR	DIERKS LAKE, AR	\$1,506,000		\$1,506,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including update water control master manual (\$25,000) and resurface roads in Jefferson Ridge Park (\$350,000).	
AR	SWD	ENS, FDRR, REC, WTR	GILLHAM LAKE, AR	\$1,305,000	\$100,000	\$1,405,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including update water control master manual (\$25,000).	Funds will be used for operations for recreation
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	GREERS FERRY LAKE, AR	\$7,840,000		\$7,840,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including repair training wall (\$285,000), connect Choctaw dump station to the sewer field (\$110,000) and install water valves in various locations in all parks (\$140,000). As a multiple purpose project with power, the project's budget includes joint activities, with a total allocation of \$449,000 shared between business lines as follows: HYD 59.02% and FRM 40.98%.	
AR	MVD	NHS	HELENA HARBOR, PHILLIPS COUNTY, AR	\$15,000	\$500,000	\$515,000	1	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
AR	MVD	FDRR	INSPECTION OF COMPLETED WORKS, AR	\$646,000		\$646,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
AR	SWD	ENS, FDRR, HYD, JOINT, NIH, REC, WTR	MCCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, AR	\$50,995,000		\$50,995,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including channel dredging for MKARNS, Dardanelle and Ozark (\$2,150,000), repair the pintle base at Dardanelle (\$3,000,000), repair stoplog centerpost receivers and inspect miter gates at Trimble Lock (\$2,500,000), repair centerpost receivers and inspect miter gates at Murray Lock (\$250,000), and install stoplog slots in upstream lock walls at Dardanelle (\$3,000,000). Funds will also be used for specific work activities, including conduct a power review at Ozark (\$75,000). The budgeted amount for this multi-purpose project includes \$1,354,000 for project features jointly used by multiple business lines: HYD 53.33% and NAV 46.67% at Dardanelle and HYD 17.84%, NAV 16.35%, REC 63.34%, and FW 2.47% at Ozark.	
AR	SWD	ENS, FDRR, REC, WTR	MILLWOOD LAKE, AR	\$4,335,000	\$200,000	\$4,535,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including update water control master manual (\$75,000) and stilling basin repairs (\$2,000,000). Funds will also be used for specific work activities, including replace boat lane pole markers in river channel (\$300,000), resurface roadways to River Run East and West Parks (\$250,000), install new septic system for Cottonshed Campground (\$225,000), and replace current ventilation in Beard's Bluff, White Cliffs, and Cottonshed Park shower facilities (\$60,000).	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

AR	MVD	ENS, FDRR, HYD, JOINT, REC	NARROWS DAM, LAKE GREESON, AR	\$5,751,000	\$355,000	\$6,106,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities to replace deteriorated water lines for Sustainability (\$40,000). Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including plans and specifications for lighting arrestors, surge capacitors, station service and heating and ventilating transformers (\$110,000). As a multiple purpose project with power, the project's budget includes \$259,000 in joint activities shared between business lines as follows: HYD-22% and FRM-78%. These joint activities include performing annual recurring maintenance on reservoir and structures, funding water control data collection, water quality analysis, and hydraulic steel structures inspections.	Funds will be used for replacement of generator breakers, replacement of powerplant roof, cleaning and sealing of outside walls of the powerplant.
AR	SWD	ENS, FDRR, REC, WTR	NIMROD LAKE, AR	\$2,340,000	\$54,000	\$2,394,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including install security monitoring systems (\$275,000) and replace security gates (\$135,000).	Funds will be used for operations for recreation
AR	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	NORFORK LAKE, AR	\$6,134,000	\$1,100,000	\$7,234,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including replace roadway median hatch covers (\$153,000). As a multiple purpose project with power, the project's budget includes joint activities, with a total allocation of \$465,000 shared between business lines as follows: HYD 35.8%, FRM 64.2%.	Funds will be used for repair of bridge bearings
AR	MVD	NHS	OSCEOLA HARBOR, AR	\$15,000	\$600,000	\$615,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
AR	MVD	ENS, FDRR, NIL, REC	OUACHITA AND BLACK RIVERS, AR & LA	\$7,979,000	\$250,000	\$8,229,000	5	Funds are being used for commonly performed O&M work. Funds are being used for specific work activities to include real estate management of the project lands leased to others in the Camden, AR area; and natural resource management activities on the waterway including conservation and protection of soil, water, wetland, vegetation, waterfowl, fish, and wildlife.	Funds will be used for periodic inspection surveys for H.K. Thatcher Lock and Dam (DSAC 5), Little River Closure Dam (DSAC 3), water control manual update for Felsenthal lock and dam, water management activities for navigation
AR	MVD	NIL	WHITE RIVER, AR	\$25,000	\$250,000	\$275,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
AR	MVD	NHS	YELLOW BEND PORT, AR	\$100,000	\$15,000	\$115,000	5	Funds are being used for surveys and for annual maintenance dredging (\$100,000).	Funds will be used for studies and surveys for navigation
AZ	SPD	ENS, FDRR, REC	ALAMO LAKE, AZ	\$3,342,000	\$700,000	\$4,042,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairs to the bulkhead and upper conduit (\$600,000); modification to a control weir to adjust height (\$360,000); rehabilitation/replacement of hydraulic system including flushing (\$746,000); interim risk reduction measures (\$110,000); initiation of a partnership to inspect and restore 30 acres of degraded habitat area (\$10,000) and removal of non-native/invasive species (\$23,000).	Funds will be used for funds would be used to complete a repair to the Alamo Dam bulkhead gate sill and for operations for recreation including property protection and the visitor assistance program.
AZ	SPD	FDRR	INSPECTION OF COMPLETED WORKS, AZ	\$534,000		\$534,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
AZ	SPD	ENS, FDRR	PAINTED ROCK DAM, AZ	\$3,086,000		\$3,086,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$50,000); repair and rehabilitation of infrastructure and major components (\$940,000); analysis of the outlet channel rock slope (\$60,000) and long-term planning for management of natural resources (\$62,000).	
AZ	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, AZ	\$107,000		\$107,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

AZ	SPD	ENS, FDRR	WHITLOW RANCH DAM, AZ	\$935,000		\$935,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including paving (\$155,000), and preparation of an Operations Management Plan (\$150,000).	
CA	SPD	ENS, FDRR, REC	BLACK BUTTE LAKE, CA	\$2,620,000		\$2,620,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash hazard analysis (\$75,000).	
CA	SPD	ENS, FDRR, REC	BUCHANAN DAM, HV EASTMAN LAKE, CA	\$2,104,000		\$2,104,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including geospatial land data migration (\$23,000) and boundary monumentation (\$550,000).	
CA	SPD	NHD	CHANNEL ISLANDS HARBOR, CA	\$6,290,000		\$6,290,000		Funds are being used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC, WTR	COYOTE VALLEY DAM, LAKE MENDOCINO, CA	\$3,540,000		\$3,540,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHS	CRESCENT CITY HARBOR, CA	\$200,000	\$5,538,000	\$5,738,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for coastal structure inspections and maintenance dredging.
CA	SPD	ENS, FDRR, REC, WTR	DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL, CA	\$7,494,000		\$7,494,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including security system repairs (\$50,000), paving (\$102,000) and beach renourishment (\$25,000).	
CA	SPD	FDRR	FARMINGTON DAM, CA	\$478,000		\$478,000		Funds are being used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC	HIDDEN DAM, HENSLEY LAKE, CA	\$2,182,000		\$2,182,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	HUMBOLDT HARBOR AND BAY, CA	\$4,510,000	\$13,200,000	\$17,710,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging and repair of north jetty.
CA	SPD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, CA	\$10,000		\$10,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
CA	SPD	FDRR	INSPECTION OF COMPLETED WORKS, CA	\$3,450,000		\$3,450,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
CA	SPD	ENS, FDRR	ISABELLA LAKE, CA	\$1,389,000		\$1,389,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	LOS ANGELES - LONG BEACH HARBORS, CA	\$0	\$10,861,000	\$10,861,000	3		Donor and Energy Transfer Port
CA	SPD	ENS, FDRR, REC	LOS ANGELES COUNTY DRAINAGE AREA, CA	\$22,633,000		\$22,633,000		Funds are being used for commonly performed O&M work. Funds are being used for specific work activities including evaluation of 2 drain systems (\$880,000), updating seismicity (\$160,000), repair or replacement of fencing (\$4,110,000), interim risk reduction measures (\$520,000), updates to 5 O&M manuals (\$160,000), preparing Operation Management Plans for 7 project features (\$1,475,000), paving (\$335,000), periodic inspection of Lopez dam (\$150,000), implementing a pest control program (\$450,000), rehabilitation and repairs of infrastructure at various locations (\$2,002,000), sediment removal at 2 project features (\$1,640,000) and updates to the Master Plans (\$46,000).	
CA	SPD	FDRR	MERCED COUNTY STREAMS, CA	\$458,000		\$458,000		Funds are being used for commonly performed O&M work.	
CA	SPD	ENS, FDRR, REC	MOJAVE RIVER DAM, CA	\$2,092,000		\$2,092,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including mapping and monitoring of cracks within the inlet (\$80,000); fence repair (\$320,000); paving roads (\$375,000); repair/rehabilitation of concrete inlet (\$300,000); preparation of an Operations Management Plan (\$150,000) and initiation of a Master Plan (\$128,000).	
CA	SPD	NHS	MONTEREY HARBOR, CA	\$0	\$9,000	\$9,000	1		Funds will be used for civil works land data migration.
CA	SPD	NHD	MORRO BAY HARBOR, CA	\$2,400,000	\$480,000	\$2,880,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging.
CA	SPD	NHD	MOSS LANDING HARBOR, CA	\$0	\$709,000	\$709,000	2		Funds will be used for maintenance dredging and civil works land data migration.

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

CA	SPD	ENS, FDRR, REC, WTR	NEW HOGAN LAKE, CA	\$2,878,000		\$2,878,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash hazard analysis (\$75,000).	
CA	SPD	ENS, FDRR, REC	NEW MELONES LAKE, DOWNSTREAM CHANNEL, CA	\$1,652,000	\$104,000	\$1,756,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash hazard analysis (\$75,000), rekeying the parks (\$40,000) and preservation of the historic Knights Ferry bridge (\$50,000).	Funds will be used for maintenance for recreation, updating of historic property management plan
CA	SPD	NHD	NEWPORT BAY HARBOR, CA	\$0	\$2,940,000	\$2,940,000	2		Funds will be used for maintenance dredging and repair of east jetty cap
CA	SPD	NHS	NOYO RIVER AND HARBOR, CA	\$0	\$735,000	\$735,000	5		Funds will be used for studies and surveys for navigation and maintenance dredging
CA	SPD	NHD	OAKLAND HARBOR, CA	\$19,076,000	\$20,000	\$19,096,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for jetty inspection
CA	SPD	NHD	OCEANSIDE HARBOR, CA	\$2,470,000	\$300,000	\$2,770,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging of entrance and approach channel
CA	SPD	ENS, FDRR, REC	PINE FLAT LAKE, CA	\$4,437,000		\$4,437,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including weir repairs (\$250,000), cleaning of vertical drains (\$441,000), and plans and specifications for capping the intake screen (\$68,000).	
CA	SPD	NHD	PORT HUENEME, CA	\$0	\$140,000	\$140,000	3		Donor and Energy Transfer Port
CA	SPD	NOTH	PROJECT CONDITION SURVEYS, CA	\$1,350,000	\$250,000	\$1,600,000	2	Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	Funds will be used for studies and surveys for navigation
CA	SPD	NHD	REDWOOD CITY HARBOR, CA	\$5,950,000	\$2,000,000	\$7,950,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
CA	SPD	NHD	RICHMOND HARBOR, CA	\$10,145,000		\$10,145,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	SACRAMENTO RIVER (30 FOOT PROJECT), CA	\$2,300,000	\$55,000	\$2,355,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for civil works land data migration
CA	SPD	ENS, NHS, REC	SACRAMENTO RIVER AND TRIBUTARIES (DEBRIS CONTROL), CA	\$1,893,000		\$1,893,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including boundary monumentation (\$250,000).	
CA	SPD	NHS	SACRAMENTO RIVER SHALLOW DRAFT CHANNEL, CA	\$210,000		\$210,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	SAN DIEGO HARBOR, CA	\$4,400,000	\$138,000	\$4,538,000	3	Funds are being used for commonly performed O&M work.	Donor and Energy Transfer Port
CA	SPD	NHD	SAN DIEGO RIVER AND MISSION BAY, CA	\$0	\$4,900,000	\$4,900,000	2		Funds will be used for repair of north jetty
CA	SPD	REC	SAN FRANCISCO BAY DELTA MODEL STRUCTURE, CA	\$1,191,000		\$1,191,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	SAN FRANCISCO BAY LONG TERM MANAGEMENT STRATEGY, CA	\$0	\$150,000	\$150,000	2		Funds will be used for environmental monitoring for dredging purposes
CA	SPD	NHD	SAN FRANCISCO HARBOR AND BAY, CA (DRIFT REMOVAL)	\$3,101,000	\$71,000	\$9,665,000	1	Funds are being used for commonly performed O&M work.	Funds will be used for environmental compliance management for navigation
CA	SPD	NHD	SAN FRANCISCO HARBOR AND BAY, CA (DRIFT REMOVAL)		\$6,493,000		2		Funds will be used for maintenance for navigation, south-side debris dock and bulkhead replacement, debris dock shorepower rehabilitation
CA	SPD	NHD	SAN FRANCISCO HARBOR, CA	\$4,335,000		\$4,335,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	SAN JOAQUIN RIVER, PORT OF STOCKTON, CA	\$5,000,000		\$5,000,000		Funds are being used for commonly performed O&M work.	
CA	SPD	NHD	SAN PABLO BAY AND MARE ISLAND STRAIT, CA	\$3,049,000		\$3,049,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including geospatial land data migration (\$50,000).	
CA	SPD	ENS, FDRR, REC	SANTA ANA RIVER BASIN, CA	\$12,537,000	\$33,000	\$12,570,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repair or replacement of fencing and access gates (\$645,000); inspections of two sub-drain systems (\$1,130,000); updates of four O&M manuals (\$500,000); preparation of four operation management plans (\$1,050,000); and infrastructure rehabilitation at 4 dam sites (\$3,000,000).	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

CA	SPD	NHD	SANTA BARBARA HARBOR, CA	\$3,360,000	\$490,000	\$3,850,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
CA	SPD	NHD	SANTA CRUZ HARBOR, CA	\$15,000	\$449,000	\$464,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for reimbursement to port for dredging per memorandum of agreement, civil works land data migration and vertical datum correction
CA	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, CA	\$1,344,000		\$1,344,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
CA	SPD	ENS, FDRR, REC	SUCCESS LAKE, CA	\$3,543,000		\$3,543,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repair of bulkhead gate (\$700,000) and solar panels (\$105,000).	
CA	SPD	NHD	SUISUN BAY CHANNEL, CA	\$3,664,000	\$3,140,000	\$6,804,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including entrainment studies (\$500,000).	Funds will be used for maintenance dredging
CA	SPD	ENS, FDRR, REC	TERMINUS DAM, LAKE KAWEAH, CA	\$2,785,000		\$2,785,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash hazard analysis (\$75,000), replacement of bridge railings (\$375,000) and restroom rehabilitation (\$160,000).	
CA	SPD	NHD	VENTURA HARBOR, CA	\$5,370,000	\$3,000,000	\$8,370,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
CA	SPD	ENS, NHS	YUBA RIVER, CA	\$1,615,000		\$1,615,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection (\$15,000), geospatial land data migration (\$55,000) and boundary documentation (\$100,000).	
CO	NWD	ENS, FDRR, REC	BEAR CREEK LAKE, CO	\$587,000		\$587,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including: repairs to the low level in-take (\$112,000), a periodic inspection (\$18,000) and the annual review/update of the Interim Risk Reduction Management Plan (\$25,000).	
CO	NWD	ENS, FDRR, REC	CHATFIELD LAKE, CO	\$1,889,000		\$1,889,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including: repairing surficial damage of spillway slab (\$324,000) and update of the Corps Water Management System model (\$16,000).	
CO	NWD	ENS, FDRR, REC	CHERRY CREEK LAKE, CO	\$6,479,000		\$6,479,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including: clean accumulated sediment out of the emergency spillway channel (\$5,000,000), install a new drainage system near the outlet works stilling basin (\$302,000), dewater and inspect the stilling basin (\$120,000), and review and update of the Interim Risk Reduction Management Plan (\$85,000).	
CO	SPD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, CO	\$17,000		\$17,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
CO	NWD	FDRR	INSPECTION OF COMPLETED WORKS, CO	\$347,000		\$347,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
CO	SPD	ENS, FDRR, REC	JOHN MARTIN RESERVOIR, CO	\$4,071,000	\$11,000	\$4,082,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including pipe and septic replacement (\$260,000), tainter gate trunnion pier repairs (\$435,000), and plans and specifications for replacing tainter gate side seals (\$100,000).	Funds will be used for maintenance for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

CO	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, CO	\$560,000		\$560,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
CO	SPD	ENS, FDRR, REC	TRINIDAD LAKE, CO	\$1,775,000		\$1,775,000		Funds are being used for commonly performed O&M work.	
CT	NAD	ENS, FDRR, REC	BLACK ROCK LAKE, CT	\$671,000	\$27,000	\$698,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including required bridge inspections (\$20,000) and required periodic inspection of the project (\$95,000).	Funds will be used for operations and maintenance for recreation
CT	NAD	ENS, FDRR, REC, WTR	COLEBROOK RIVER LAKE, CT	\$2,583,000		\$2,583,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including conduct required inspections of three public use bridges scheduled for inspection (\$18,000), conduct required periodic inspection of project (\$70,000), conduct required periodic assessment of project (\$180,000), construct emergency access road to dam outlet works (\$740,000), relocate public and O&M access road/eliminate bridge (\$715,000), repairs to Colebrook Old Route 8 Bridge (\$60,000), and review of dam freeboard (\$15,000).	
CT	NAD	ENS, FDRR, REC	HANCOCK BROOK LAKE, CT	\$821,000	\$20,000	\$841,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including complete repairs to the dam and appurtenant structures as recommended in the periodic inspection (\$105,000) and replace security fencing and project gates (\$230,000).	Funds will be used for operations for recreation
CT	NAD	ENS, FDRR, REC	HOP BROOK LAKE, CT	\$1,285,000		\$1,285,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including conduct required periodic inspection of project (\$95,000) and replace leaking tower roof (\$105,000).	
CT	NAD	FDRR	INSPECTION OF COMPLETED WORKS, CT	\$474,000		\$474,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
CT	NAD	ENS, FDRR, REC	MANSFIELD HOLLOW LAKE, CT	\$784,000		\$784,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dive inspection of spillway area (\$35,000), hydraulic steel structure inspections (\$20,000), and management of special status species (\$30,000).	
CT	NAD	ENS, FDRR, REC	NORTHFIELD BROOK LAKE, CT	\$391,000	\$61,000	\$452,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation
CT	NAD	NOTH	PROJECT CONDITION SURVEYS, CT	\$900,000		\$900,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
CT	NAD	FDRR	STAMFORD HURRICANE BARRIER, CT	\$572,000		\$572,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including insulating the control room.	
CT	NAD	ENS, FDRR, REC	THOMASTON DAM, CT	\$1,022,000	\$54,000	\$1,076,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspections (\$259,000) and cleaning and inspection of the hydraulic motors (\$64,000).	Funds will be used for operations for recreation
CT	NAD	ENS, FDRR, REC	WEST THOMPSON LAKE, CT	\$893,000		\$893,000		Funds are being used for commonly performed O&M work. Funds will also be used for non-routine work including \$35,000 to repair control valves.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

DC	NAD	FDRR	INSPECTION OF COMPLETED WORKS, DC	\$80,000		\$80,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
DC	NAD	NHD	POTOMAC AND ANACOSTIA RIVERS, DC (DRIFT REMOVAL)	\$930,000		\$930,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities such as drift collection and removal operations to support safe passage, free of obstructions, on the Potomac and Anacostia Rivers.	
DC	NAD	NOTH	PROJECT CONDITION SURVEYS, DC	\$30,000		\$30,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
DE	NAD	NHS	INDIAN RIVER INLET & BAY, DE	\$7,000	\$20,000	\$27,000	1	Funds are being used for commonly performed O&M work.	Funds will be used for operation for navigation
DE	NAD	FDRR	INSPECTION OF COMPLETED WORKS, DE	\$70,000		\$70,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
DE	NAD	NHD	INTRACOASTAL WATERWAY, DELAWARE RIVER TO CHESAPEAKE BAY, DE & MD	\$12,450,000	\$5,685,000	\$18,135,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging of the 35' channel (\$6,810,000) and maintenance dredging of Canal Proper and Basin (\$1,650,000).	Funds will be used for operations and maintenance for navigation, maintenance dredging, repairs to Reedy Point and Chesapeake City bridges, repairs to radio towers.
DE	NAD	NIH	INTRACOASTAL WATERWAY, REHOBOTH BAY TO DELAWARE BAY, DE	\$30,000		\$30,000		Funds are being used for commonly performed O&M work.	
DE	NAD	NOTH	PROJECT CONDITION SURVEYS, DE	\$200,000		\$200,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
DE	NAD	NHD	WILMINGTON HARBOR, DE	\$5,491,000	\$5,800,000	\$11,291,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including (summer cycle) maintenance dredging (\$5,301,000).	Funds will be used for maintenance dredging, construction and maintenance of dredged material disposal facilities
FL	SAD	NHD	CANAVERAL HARBOR, FL	\$4,149,000	\$5,620,000	\$9,769,000	2	FY 2019 Funds are being used for specific work activities including dredging (\$4,149,000).	Funds will be used for repair of Canaveral Lock eastern sector gates
FL	SAD	ENS, FOTH, NHS, NIH, NIL, REC	CENTRAL & SOUTHERN FLORIDA, FL	\$15,463,000	\$1,000,000	\$16,463,000	6	Funds are being used for commonly performed O&M work. Sustainability work includes building insulation and door/window/vent replacement (\$100,000). Funds will also be used for specific work activities including bridge inspections (\$29,000) and Dam Safety Inspections (\$144,000) and functional exercise (\$52,000). Funds will also be used for specific work activities including pest and invasive species management (\$100,000).	Funds will be used for revision of the Lake Okeechobee regulation schedule
FL	SAD	NHS	EAST PASS CHANNEL, FL	\$0	\$1,500,000	\$1,500,000	5		Funds will be used for maintenance dredging
FL	SAD	NHD	FERNANDINA HARBOR, FL	\$0	\$300,000	\$300,000	2		Funds will be used for plans and specifications and Section 103 permit
FL	SAD	FOTH	INSPECTION OF COMPLETED WORKS, FL	\$814,000		\$814,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

FL	SAD	NIH, NIL	INTRACOASTAL WATERWAY, JACKSONVILLE TO MIAMI, FL	\$2,980,000		\$2,980,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$2,050,000).	
FL	SAD	NHD	JACKSONVILLE HARBOR, FL	\$6,560,000	\$4,061,000	\$10,621,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$5,850,000).	Funds will be used for maintenance dredging and geospatial land data migration
FL	SAD	ENS, HYD, JOINT, NIL, REC	JIM WOODRUFF LOCK AND DAM, LAKE SEMINOLE, FL, AL & GA	\$7,560,000		\$7,560,000		Funds are being used for commonly performed O&M work. Funds are being used for specific work activities including pest and invasive species management (\$630,000). The budgeted amount for the project includes \$1,436,000 for commonly performed O&M jointly used by multiple business lines: HYD - 35% and NAV - 65%. Funds are being used for specific work activities including Dam Safety periodic assessment (\$153,000).	
FL	SAD	NHD	MANATEE HARBOR, FL	\$3,845,000	\$500,000	\$4,345,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,490,000).	Funds will be used for dredged material monitoring area dewatering maintenance
FL	SAD	NHD	MIAMI HARBOR, FL	\$6,070,000	\$2,371,000	\$8,441,000	3	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$5,090,000).	Donor and Energy Transfer Port
FL	SAD	ENS, NHS, NIH, REC	OKEECHOBEE WATERWAY, FL	\$2,320,000	\$220,000	\$2,645,000	5	Funds are being used for commonly performed O&M work. Sustainability funds in the amount of \$15,000 will be used for building insulation. k. Sustainability funds in the amount of \$4,000 will be used for fixture replacements. Funds will also be used for specific work activities including update to Shoreline management plan (\$125,000).	Funds will be used for plans and specifications for St. Lucie sector gate repairs
FL	SAD	REC	OKEECHOBEE WATERWAY, FL		\$105,000		6		Funds will be used for operations for recreation
FL	SAD	NHD	PALM BEACH HARBOR, FL	\$2,785,000		\$2,785,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$2,455,000).	
FL	SAD	NHD	PANAMA CITY HARBOR, FL	\$55,000		\$55,000		Funds are being used for commonly performed O&M work.	
FL	SAD	NHD	PENSACOLA HARBOR, FL	\$1,390,000		\$1,390,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,150,000).	
FL	SAD	NHD	PORT EVERGLADES HARBOR, FL	\$5,850,000	\$9,320,000	\$15,384,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$5,200,000).	Funds will be used for maintenance dredging and perform repair and maintenance to the jetty
FL	SAD	NHD	PORT EVERGLADES HARBOR, FL		\$214,000		3		Donor and Energy Transfer Port
FL	SAD	NOTH	PROJECT CONDITION SURVEYS, FL	\$1,275,000		\$1,275,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
FL	SAD	NOTH	REMOVAL OF AQUATIC GROWTH	\$3,290,000	\$750,000	\$4,040,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance for navigation
FL	SAD	FOTH	SCHEDULING RESERVOIR OPERATIONS, FL	\$132,000		\$132,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
FL	SAD	ENR	SOUTH FLORIDA ECOSYSTEM RESTORATION, FL	\$0	\$6,537,000	\$6,537,000	6		Funds will be used to meet Biological Opinion legal requirements (\$5,987,000) and to meet legal requirements on Manatee Pass Gates (\$550,000)
FL	SAD	NHD	TAMPA HARBOR, FL	\$980,000	\$500,000	\$1,480,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging plans and specifications (\$250,000).	Funds will be used for maintenance of dredged material disposal facilities for navigation
FL	SAD	NOTH	WATER/ENVIRONMENTAL CERTIFICATION, FL	\$180,000		\$180,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	ALLATOONA LAKE, GA	\$9,257,000	\$3,000,000	\$12,257,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including litigation expenses related to ACT Water Control Manual (\$250,000). The budgeted amount for the project includes \$1,659,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 78% and FRM - 22%. Funds will also be used for specific work activities including dam safety periodic inspection (\$76,000), Remove trees from Saddle dikes and clean toe areas (\$105,000), and repair blocked foundation drains (\$400,000).	Funds will be used for operation and management activities for recreation
GA	SAD	ENS, NIL, REC	APALACHICOLA, CHATTAHOOCHEE AND FLINT RIVERS, GA, AL & FL	\$1,332,000	\$18,000	\$1,350,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including annual Dam Safety report (\$23,000).	Funds will be used for operation and management activities for recreation
GA	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, GA	\$3,000,000		\$3,000,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$2,819,000).	
GA	SAD	NHD	BRUNSWICK HARBOR, GA	\$5,258,000	\$1,620,000	\$6,878,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,304,000) and placement area maintenance (\$177,000).	Funds will be used for additional maintenance dredging of Inner Harbor and weir #3 repair
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	BUFORD DAM AND LAKE SIDNEY LANIER, GA	\$11,395,000	\$75,000	\$11,470,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities such as critical infrastructure repairs (\$185,000) and replacing generator fire suppression system (\$250,000). Funds will also be used for specific work activities including master plan compliance (\$250,000) and updating Shoreline management database (\$40,000). Fund will also be used for litigation expenses for ACF Water Control Manual implementation (\$250,000). The budgeted amount for the project includes \$1,489,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 75%, NAV - 4%, and FRM - 21%. Funds will also be used for specific work activities including Dam Safety periodic inspections (\$79,000) and environmental assessment for road relocation and repair (\$300,000).	Funds will be used for remediation actions for corrosion-inducing bacteria
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	CARTERS DAM AND LAKE, GA	\$7,591,000		\$7,591,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including erosion repair at Spillway Gate 2 (\$50,000). Funds will also be used for specific work activities including replacement of generator fire suppression system (\$250,000). The budgeted amount for the project includes \$1,603,000 for commonly performed O&M jointly used by multiple business lines: HYD - 65% and FRM - 35%. Funds will also be used for specific work activities including dive inspections and generating report (\$138,000).	
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	HARTWELL LAKE, GA & SC	\$11,160,000	\$1,550,000	\$12,710,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of fire suppression system (\$250,000). Funds will also be used for specific work activities including forest management (\$10,000) and boundary survey and monumentation (\$125,000). The budgeted amount for the project includes \$881,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 89.5%, NAV - 4.6% and FRM - 5.9%. Funding will be split between the Operation and Maintenance account (FRM, RC, H, EN, and WS) and the Harbor Maintenance Trust Fund account (N). Funds will also be used for specific work activities including precise alignment survey (\$49,000), inspection of drainage culvert (\$14,000), and design and repair of SC weir and drainage ditches (\$180,000).	Funds will be used for design and repair of the spillway gate trunnion supports and completion of master plan
GA	SAD	FDRR	INSPECTION OF COMPLETED WORKS, GA	\$196,000		\$196,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	J STROM THURMOND LAKE, GA & SC	\$11,129,000	\$125,000	\$11,254,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including septic system repairs (\$60,000). Funds will also be used for specific work activities including boundary surveying and recertification (\$12,000), and pest and invasive species management (\$72,000), revision of Master Plan (\$350,000), and fisheries management (\$106,000). The budgeted amount for the project includes \$740,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 85%, NAV - 8%, and FRM - 7%. Funding will be split between the Operation and Maintenance account (FRM, RC, H, EN, and WS) and the Harbor Maintenance Trust Fund account (N). Funds will also be used for specific work activities including Dam Safety periodic inspections (64,000), hydraulic steel structures inspection (\$30,000), and toe drain inspections (\$18,000).	Funds will be used for management of cultural resources
GA	SAD	NOTH	PROJECT CONDITION SURVEYS, GA	\$100,000		\$100,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
GA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	RICHARD B RUSSELL DAM AND LAKE, GA & SC	\$9,681,000		\$9,681,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Gantry Crane Rehabilitation Design (\$250,000) and Bridge Crane Rehabilitation Design (\$250,000). The budgeted amount for the project includes \$2,215,000 for commonly performed O&M work jointly used by multiple business lines: FRM - .25%, HYD - 79% and REC - 20.75%. Funds will also be used for specific work activities including precise alignment survey (\$49,000) and tabletop emergency exercise (\$12,000).	
GA	SAD	NHD	SAVANNAH HARBOR, GA	\$34,312,000	\$25,868,000	\$60,180,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$23,992,000), placement area maintenance (\$2,700,000), and operation of dissolved oxygen facility (\$3,000,000).	Funds will be used for Section 103 testing of entrance channel sediments and maintenance dredging
GA	SAD	NHS	SAVANNAH RIVER BELOW AUGUSTA, GA	\$201,000		\$201,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including a Dam Safety periodic inspection (\$56,000).	
GA	SAD	ENS, FDRR, HYD, JOINT, REC	WEST POINT DAM AND LAKE, GA & AL	\$7,828,000	\$1,850,000	\$9,678,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including generator replacement design for Unit #1 (\$300,000). The budgeted amount for the project includes \$1,101,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 45%, NAV - 2%, FRM - 15%, ENS - 11% and REC - 27%.	Funds will be used for repainting of spillway gates, updating of shoreline management plan
HI	POD	REC	BARBERS POINT HARBOR, HI	\$295,000		\$295,000		Funds are being used for commonly performed O&M work.	
HI	POD	NHD	HONOLULU HARBOR, HI	\$7,300,000		\$7,300,000		Funds are being used for commonly performed O&M work.	
HI	POD	FDRC	INSPECTION OF COMPLETED WORKS, HI	\$278,000		\$278,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

HI	POD	NOTH	PROJECT CONDITION SURVEYS, HI	\$663,000		\$663,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
IA	MVD	ENS, FDRR, REC	CORALVILLE LAKE, IA	\$5,599,000	\$175,000	\$5,774,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities to design and fabricate three emergency bulkheads for each of the gate wells on the exterior of the control house structure (\$1,150,000).	Funds will be used for boundary and flowage easement inspection, monitoring and maintenance for environmental stewardship
IA	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, IA	\$6,000		\$6,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
IA	MVD	FDRR	INSPECTION OF COMPLETED WORKS, IA	\$1,282,000		\$1,282,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
IA	NWD	ENS, NIL	MISSOURI RIVER - SIOUX CITY TO THE MOUTH, IA, KS, MO & NE	\$13,200,000	\$117,000	\$13,317,000	5	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including critical structure maintenance for navigation (\$2,750,000) and a dock barge replacement (\$4,330,000).	Funds will be used for operation for navigation, management of mitigation activities for navigation
IA	NWD	NOTH	MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & SD	\$4,829,000		\$4,829,000		Funds are being used for commonly performed O&M work.	
IA	MVD	NOTH	PROJECT CONDITION SURVEYS, IA		\$2,000	\$2,000	2		Funds will be used for studies and surveys for navigation
IA	NWD	ENS, FDRR, REC, WTR	RATHBUN LAKE, IA	\$2,974,000		\$2,974,000		Funds are being used for commonly performed O&M work.	
IA	MVD	ENS, FDRR, REC	RED ROCK DAM AND LAKE RED ROCK, IA	\$5,954,000	\$100,000	\$6,054,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including plans and specifications to repair contract wall and apron, replace two HVAC systems (\$228,000), and replace deteriorated water lines and add water meters at multiple recreation and campground areas (\$722,000).	Funds will be used for performance of Red Rock boundary delineation and monumentation
IA	MVD	ENS, FDRR, REC, WTR	SAYLORVILLE LAKE, IA	\$7,934,000	\$500,000	\$8,434,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dewatering of outlet works stilling basin to performing inspections, fabricate emergency bulkheads on the main dam control tower, repair degraded stone and regrade and riprap unprotected slopes (\$2,012,000).	Funds will be used for Saylorville boundary and flowage easement inspections, monitoring and maintenance for environmental stewardship, maintenance of Prairie Flower Sewage Lagoon Emitter Fields
ID	NWD	ENS, JOINT, REC	ALBENI FALLS DAM, ID	\$1,182,000	\$15,000	\$1,197,000	6	Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$109,000 for project features jointly used by multiple business lines: NAV - 50.1% and FRM - 49.9%. Specific joint work activities include the National Environmental Policy Act Analysis of the Columbia River Basin Operations (\$20,000); Installation of Boater Safety Boom (\$12,000); and Spillway Gate Recoating and Weld Repair (\$10,000).	Funds will be used for operation and management activities for recreation
ID	NWD	ENS, JOINT, REC	DWORSHAK DAM AND RESERVOIR, ID	\$4,902,000		\$4,902,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$3,719,000 for project features jointly used by multiple business lines: NAV - 15.7% and FRM - 84.3%. Within the Joint funding, specific work activities include \$56,000 provided for a National Fish Hatchery Major Maintenance Report and \$442,000 provided for installation of a monitoring alarm system that will prevent fish mortality. Also included is \$226,000 for completion of the monoliths 37/38 and 16/17 foundation joint drain repairs and \$800,000 for a pilot project design of two recirculating circular fish rearing tanks.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

ID	NWD	FDRR	INSPECTION OF COMPLETED WORKS, ID	\$377,000		\$377,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
ID	NWD	ENS, FDRR, REC	LUCKY PEAK LAKE, ID	\$10,292,000	\$704,000	\$10,996,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including continued slide gate cylinder repair work (\$416,000), replacement of the guard rails along both sides of the dam crest road (\$451,000) and design and replacement of both emergency gate hoists (\$6,780,000).	Funds will be used for road maintenance and repair
ID	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, ID	\$716,000		\$716,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
IL	LRD	NHD	CALUMET HARBOR AND RIVER, IL & IN	\$4,616,000	\$600,000	\$5,216,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including DMMP close out (\$130,000); sediment management within the DMDF which will allow normal dredging/storage operations to continue (\$620,000); dredge 75,000 cubic yards of sediment from harbor and river channel segments (\$2,495,000); and repair a 750-foot section of harbor shore-arm (\$966,000).	Funds will be used for prepare dredged material management plan feasibility report
IL	MVD	ENS, FDRR, REC, WTR	CARLYLE LAKE, IL	\$5,719,000	\$225,000	\$5,944,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for boundary maintenance
TX	SWD	NHS	CEDAR BAYOU, TX	\$0	\$125,000	\$125,000	1		Funds will be used for plans and specifications for Cedar Bayou placement area #6 improvements
IL	LRD	NHD	CHICAGO HARBOR, IL	\$3,583,000	\$11,200,000	\$14,783,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including relocation of utilities at the north pier (\$500,000), dam safety activities (\$39,000), emergency action plan updates (\$5,000), and a multi-beam survey (\$19,000).	Funds will be used for Chicago Lock security fence improvements and main access gate replacement, north pier reconstruction, Chicago Lock chamber walls resurfacing, chamber floor repairs, bulkhead relocation, back-up generator installation, arc-flash hazard analysis
IL	LRD	FDRR	CHICAGO RIVER, IL	\$286,000		\$286,000		Funds are being used for commonly performed O&M work.	
IL	LRD	ENR	CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIER, IL	\$18,920,000		\$18,920,000		Funds are being used for operation and maintenance of the entire electric dispersal barriers system (Demonstration Barrier, Barrier IIA, & Barrier IIB), a backup generator maintenance support contract, a contract for clearing and trimming of vegetation along the Des Plaines River barrier, a contract to replace the narrow array electrodes at Barrier IIB, site security to prevent unauthorized visitors and access, cybersecurity, real estate support, field and/or laboratory research to verify the effectiveness of the barriers and optimize their operation, labor, power to the building, fuel for the Backup Generators, utility bills.	
IL	MVD	ENS, FDRR	FARM CREEK RESERVOIRS, IL	\$413,000	\$50,000	\$463,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities of tree removal for dam safety (\$45,000).	Funds will be used for resolution of real estate encroachment
IL	MVD	ENS, NIH, REC	ILLINOIS WATERWAY (MVR PORTION), IL & IN	\$43,727,000	\$18,052,930	\$72,979,930	1	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging, lock and dam repairs at multiple sites, and pump station repairs (\$13,028,000).	Funds will be used for maintenance of Lagrange Lock and Dam electrical, mechanical, bubbler systems
IL	MVD	NIH	ILLINOIS WATERWAY (MVR PORTION), IL & IN		\$11,000,000		4		Funds will be used for maintenance of of Lagrange Lock and Dam electrical, mechanical, bubbler systems; Marseilles Lock and Dam upper sill beam; and Dresden Lock and Dam bulkhead recesses
IL	MVD	REC	ILLINOIS WATERWAY (MVR PORTION), IL & IN		\$200,000		6		Funds will be used for operations and maintenance for recreation
IL	MVD	ENS, NIH	ILLINOIS WATERWAY (MVS PORTION), IL & IN	\$2,060,000		\$2,060,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,350,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

IL	MVD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, IL	\$50,000		\$50,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
IL	LRD, MVD	FDRC, FDRR	INSPECTION OF COMPLETED WORKS, IL	\$1,973,000		\$1,973,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
IL	MVD	ENS, NIL, REC	KASKASKIA RIVER NAVIGATION, IL	\$2,222,000	\$33,000	\$2,330,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging necessary to provide safe passage through the channel (\$298,000) and for the inspection and surveillance of project boundary to prevent encroachments on federal land (\$25,000).	Funds will be used for water management activities for navigation
IL	MVD	ENS	KASKASKIA RIVER NAVIGATION, IL		\$75,000		6		Funds will be used for boundary and flowage easement inspection, monitoring and routine maintenance for environmental stewardship
IL	LRD	NHD	LAKE MICHIGAN DIVERSION, IL	\$851,000	\$74,000	\$925,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for water management activities for navigation
IL	MVD	ENS, FDRR, REC, WTR	LAKE SHELBYVILLE, IL	\$6,272,000	\$100,000	\$6,372,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replace failing concrete and develop plans for repair and painting of metal works (375,000). Funds will also be used for specific work activities including clear brush and replacing boundary posts and signs, digitize flowage easements, and management of special status species (79,000).	Funds will be used for boundary monumentation, rectification for environmental stewardship
IL	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL	\$70,824,000	\$30,000	\$71,169,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of miter gate anchorages at Locks 20, 21, 22, replacement of upstream guidewall bullnose at Lock 15, dewatering Lock 18 for maintenance and installation of lock bulkheads, and dredging from Lock 11 to 22. Funds will also be used for specific work activities boundary monumentation and rectification (\$100,000).	Funds will be used for construction and maintenance of dredged material disposal facilities for navigation
IL	MVD	ENS	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVR PORTION), IL		\$315,000		6		Funds will be used for operation for environmental stewardship, shoreline management, encroachment resolution, boundary monumentation and rectification, Putney Landing cultural resource protection plans and survey
IL	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVS PORTION), IL	\$39,140,000	\$40,000	\$39,305,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities at Lock and Dams 24, 25 and Mel Price Lock including design and replacement for energy efficient lighting, implementation of safety requirements, replacement of miter gate anchorages, completion of Mel Price EISA 432 Audit, dredging for navigation, and dike and revetment repairs (\$18,375,000).	Funds will be used for land acquisition and land disposal management activities, settlement of claims and audits for navigation, resolution of real estate encroachments for navigation, boundary monumentation and rectification for navigation, boundary and flowage easement maintenance activities for navigation
IL	MVD	ENS	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVS PORTION), IL		\$125,000		6		Funds will be used for operation for environmental stewardship, shoreline management, boundary monumentation and rectification
IL	LRD	NOTH	PROJECT CONDITION SURVEYS, IL	\$106,000		\$106,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
IL	MVD	ENS, FDRR, REC, WTR	REND LAKE, IL	\$5,542,000	\$165,000	\$5,707,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for environmental stewardship, boundary and flowage easement inspections

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

IL	LRD	FDRC	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IL	\$680,000		\$680,000	Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
IL	LRD	NHD	WAUKEGAN HARBOR, IL	\$1,526,000		\$1,526,000	Funds are being used for specific work activities including maintenance dredging of approximately 80,000 cubic yards of shoaling from the approach channel to restore minimum functional depth (\$1,526,000).	
IN	LRD	ENS, FDRC, REC, WTR	BROOKVILLE LAKE, IN	\$1,813,000		\$1,813,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including cleaning the relief wells (\$117,000), installing the two-ton jib crane and two-ton electric chain hoist (98,000), facility security assessments (\$16,000), completion of the Master Plan update (\$250,000) and a freshwater mussel survey (\$5,000).	
IN	LRD	NHD	BURNS WATERWAY HARBOR, IN	\$4,619,000		\$4,619,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging approximately 90,000 cubic yards within the approach channel area (\$1,487,000) and repairs to the channel scour hole (\$2,925,000).	
IN	LRD	ENS, FDRC, REC	CAGLES MILL LAKE, IN	\$1,195,000		\$1,195,000	Funds are being used for commonly performed O&M work.	
IN	LRD	ENS, FDRC, REC	CECIL M HARDEN LAKE, IN	\$1,243,000		\$1,243,000	Funds are being used for commonly performed O&M work.	
IN	LRD	NHD	INDIANA HARBOR, IN	\$10,998,000	\$425,000	\$11,423,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety training (\$12,000), inspection activities (\$80,000), repairing 800 feet of failing laid-up stone in East Breakwater via rubble mound encapsulation (\$2,160,000), and removing 90,000 cubic yards (CY) of Non-TSCA sediment (\$3,770,000).	Funds will be used for maintenance of dredged material disposal facilities for navigation
IN	LRD	FDRC, FDRC	INSPECTION OF COMPLETED WORKS, IN	\$1,051,000		\$1,051,000	Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
IN	LRD	ENS, FDRC, REC	J EDWARD ROUSH LAKE, IN	\$1,375,000		\$1,375,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety activities (\$130,000) and removing invasive woody vegetation on four acres (\$10,000).	
IN	LRD	ENS, FDRC, REC	MISSISSINEWA LAKE, IN	\$1,274,000		\$1,274,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety inspection activities (\$98,000).	
IN	LRD	ENS, FDRC, REC, WTR	MONROE LAKE, IN	\$1,374,000		\$1,374,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety programs inspection activities (\$8,000).	
IN	LRD	ENS, FDRC, REC, WTR	PATOKA LAKE, IN	\$1,498,000	\$21,000	\$1,519,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$8,000), installing piezometers (\$180,000), relining the road culvert (\$141,000), adding slush grout to the tailwater retreat channel (\$33,000), adding shoreline protection to the dike (\$60,000), and cultural resources site monitoring and protection (\$10,000).	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

IN	LRD	NOTH	PROJECT CONDITION SURVEYS, IN	\$190,000		\$190,000	Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe	
IN	LRD	ENS, FDRR, REC	SALAMONIE LAKE, IN	\$1,313,000		\$1,313,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$138,000).	
IN	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, IN	\$55,000		\$55,000	Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data; including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
KS	NWD	ENS, FDRR, REC, WTR	CLINTON LAKE, KS	\$2,354,000		\$2,354,000	Funds are being used for commonly performed O&M work.	
KS	SWD	ENS, FDRR, REC, WTR	COUNCIL GROVE LAKE, KS	\$1,378,000		\$1,378,000	Funds are being used for commonly performed O&M work.	
KS	SWD	ENS, FDRR, REC, WTR	EL DORADO LAKE, KS	\$738,000		\$738,000	Funds are being used for commonly performed O&M work.	
KS	SWD	ENS, FDRR, REC, WTR	ELK CITY LAKE, KS	\$1,031,000		\$1,031,000	Funds are being used for commonly performed O&M work.	
KS	SWD	ENS, FDRR, REC	FALL RIVER LAKE, KS	\$1,145,000	\$62,000	\$1,207,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including installation of LED lighting at the project office compound (\$10,000) and replacing leaking water lines at the Dam Site recreation area (\$100,000).	Funds will be used for operations for recreation
KS	NWD	ENS, FDRR, REC, WTR	HILLSDALE LAKE, KS	\$967,000		\$967,000	Funds are being used for commonly performed O&M work.	
KS	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, KS	\$4,000		\$4,000	Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
KS	SWD	FDRR	INSPECTION OF COMPLETED WORKS, KS	\$1,250,000		\$1,250,000	Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
KS	SWD	ENS, FDRR, REC, WTR	JOHN REDMOND DAM AND RESERVOIR, KS	\$1,727,000		\$1,727,000	Funds are being used for commonly performed O&M work.	
KS	NWD	ENS, FDRR, REC, WTR	KANOPOLIS LAKE, KS	\$4,134,000	\$9,000	\$4,143,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repair of trash rack and removal sediment at tower (\$2,500,000) and the replacement of the security maintenance compound perimeter fence (\$65,000).	Funds will be used for maintenance for recreation
KS	SWD	ENS, FDRR, REC, WTR	MARION LAKE, KS	\$1,833,000	\$476,000	\$2,309,000	Funds are being used for commonly performed O&M work.	Funds will be used for replacement of spillway bridge, operations and maintenance for recreation
KS	NWD	ENS, FDRR, REC, WTR	MELVERN LAKE, KS	\$3,146,000		\$3,146,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including sustainability work to reduce water consumption (\$126,000) and continuation of a reallocation study (\$300,000).	
KS	NWD	ENS, FDRR, REC, WTR	MILFORD LAKE, KS	\$2,153,000		\$2,153,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement and repair of the control tower electrical system (\$27,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

KS	SWD	ENS, FDRR, REC, WTR	PEARSON - SKUBITZ BIG HILL LAKE, KS	\$1,397,000		\$1,397,000	Funds are being used for commonly performed O&M work. Funding will also be used for specific work activities including installation of LED lighting at the project office to reduce electricity consumption (\$10,000). Funding will also be used for specific work activities including installation of solar water heaters at some of the project park restrooms (\$10,000).	
KS	NWD	ENS, FDRR, REC, WTR	PERRY LAKE, KS	\$2,495,000	\$70,000	\$2,565,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including the re-grade and placement of riprap on downstream outlet channels (\$105,000) and roadway chip and seal, crack filling, and rock placement (\$105,000).	Funds will be used for operations for recreation, boundary maintenance and vegetation removal
KS	NWD	ENS, FDRR, REC, WTR	POMONA LAKE, KS	\$2,063,000	\$51,000	\$2,114,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of permanent operating equipment of a Case Loader (\$100,000).	Funds will be used for maintenance for recreation
KS	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, KS	\$472,000		\$472,000	Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
KS	SWD	ENS, FDRR, REC, WTR	TORONTO LAKE, KS	\$733,000		\$733,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairing concrete spalls on the dam (\$65,000) and installing a new water line to the dam structure (\$100,000).	
KS	NWD	ENS, FDRR, REC, WTR	TUTTLE CREEK LAKE, KS	\$2,399,000	\$87,000	\$2,486,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of permanent operating equipment of a tandem axle dump truck (\$168,000).	Funds will be used for maintenance for recreation, boundary and flowage easement inspections, monitoring and maintenance for environmental stewardship
KS	NWD	ENS, FDRR, REC	WILSON LAKE, KS	\$1,844,000	\$220,000	\$2,064,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including a compound entrance gate (\$30,000) and replacement of the compound entrance fence (\$60,000).	Funds will be used for master plan compliance
KY	LRD	ENS, HYD, JOINT, NIH, REC, WTR	BARKLEY DAM AND LAKE BARKLEY, KY & TN	\$17,631,000	\$700,000	\$18,331,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Cumberland River Dredging (\$1,190,000), replacing the electrical operating system for the lock and emergency dam (\$2,383,000), Forebay debris removal (\$400,000), design and purchase of trash screens (\$2,903,000), boundary surveying and rectification (\$55,000), and a water availability study (\$30,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$2,089,000 shared between business lines as follows: HYD – 6%, NAV – 68%, and FRM – 26%.	Funds will be used for replace storm damaged powerhouse generator roof system
KY	LRD	ENS, FDRR, REC, WTR	BARREN RIVER LAKE, KY	\$3,622,000		\$3,622,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including painting and repairs of the control tower bridge (\$663,000) and boundary surveys (\$300,000).	
KY	LRD	NHS, NIH	BIG SANDY HARBOR, KY	\$1,960,000		\$1,960,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,939,000).	
KY	LRD	ENS, FDRR, REC	BUCKHORN LAKE, KY	\$2,079,000		\$2,079,000	Funds are being used for commonly performed O&M work.	
KY	LRD	ENS, FDRR, REC, WTR	CARR CREEK LAKE, KY	\$1,869,000		\$1,869,000	Funds are being used for commonly performed O&M work.	
KY	LRD	ENS, FDRR, REC, WTR	CAVE RUN LAKE, KY	\$1,155,000		\$1,155,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including continuation of rip rap replacement in the retreat channel (\$60,000).	
KY	LRD	ENS, FDRR, REC	DEWEY LAKE, KY	\$3,780,000	\$120,000	\$3,900,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including cleaning and painting the emergency gate and lifting beam (\$100,000) and refurbishing three sluice gates (\$2,000,000).	Funds will be used for maintenance for recreation
KY	MVD	NHS	ELVIS STAHR (HICKMAN) HARBOR, KY	\$915,000		\$915,000	Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

KY	LRD	ENS	FALLS OF THE OHIO NATIONAL WILDLIFE, KY & IN	\$34,000		\$34,000		Funds are being used for commonly performed O&M work.	
KY	LRD	ENS, FDRR, REC	FISHTRAP LAKE, KY	\$1,858,000	\$490,000	\$2,348,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repacking the hydraulic cylinders on the low flow gates (\$30,000), inspection activities (\$50,000), and replacing security fencing (\$25,000).	Funds will be used for drift and debris removal, operations and maintenance for recreation
KY	LRD	ENS, FDRR, REC, WTR	GRAYSON LAKE, KY	\$1,211,000	\$305,000	\$1,516,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing the sewer line at the project office as a cost savings measure (\$40,000).	Funds will be used for operations and maintenance for recreation
KY	LRD	ENS, NIL	GREEN AND BARREN RIVERS, KY	\$2,736,000		\$2,736,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing dam warning signs at both locks (\$320,000).	
KY	LRD	ENS, FDRR, REC, WTR	GREEN RIVER LAKE, KY	\$4,849,000		\$4,849,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing electrical components on the elevator (\$70,000), replacing the multi-level assemblies (\$556,000), repairing baffles and the stilling basin floor (\$1,093,000), regrading and rocking the upstream dike service road (\$194,000), and grading and installing rip rap in areas of erosion (\$236,000).	
KY	LRD	FDRR	INSPECTION OF COMPLETED WORKS, KY	\$1,015,000		\$1,015,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
KY	LRD	NIL	KENTUCKY RIVER, KY	\$22,000		\$22,000		Funds are being used for commonly performed O&M work.	
KY	LRD	ENS, HYD, JOINT, REC, WTR	LAUREL RIVER LAKE, KY	\$2,343,000		\$2,343,000		Funds are being used for commonly performed O&M work. As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$685,000 shared between business lines as follows: HYD – 74% and REC – 76%.	
KY	LRD	ENS, FDRR, REC, WTR	MARTINS FORK LAKE, KY	\$1,697,000		\$1,697,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety inspection activities (\$155,000) and boundary surveying (\$129,000).	
KY	LRD	FDRR	MIDDLESBORO CUMBERLAND RIVER BASIN, KY	\$266,000		\$266,000		Funds are being used for commonly performed O&M work.	
KY	LRD	ENS, FDRR, REC, WTR	NOLIN LAKE, KY	\$2,853,000		\$2,853,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including flowage easement activities (\$75,000).	
KY	LRD	ENS, NIH	OHIO RIVER LOCKS AND DAMS, KY, IL, IN & OH	\$68,525,000	\$2,500,000	\$71,025,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$331,000); installing the replacement upper miter gate at McAlpine Lock and Dam, North Chamber (\$16,350,000); repairing tainter gate cable connections at Newburgh Lock and Dam, John T Myers Lock and Dam, and Gates 4 and 6 at Smithland Lock and Dam (\$6,900,000); repairing the auxiliary chamber culvert valve at Markland L&D (\$3,180,000); rehabilitating the electrical system at Markland L&D (\$2,202,000); fabricating replacement downstream miter gates at Cannelton L&D (\$14,860,000); installing replacement cylinders at Smithland L&D (\$650,000); and replacing the HVAC units at Smithland L&D as a cost savings measure (\$120,000).	Funds will be used for rehabilitation of electrical system at John T Myers Locks and Dam
KY	LRD	NIH	OHIO RIVER OPEN CHANNEL WORK, KY, IL, IN, OH, PA & WV	\$7,639,000	\$500,000	\$8,139,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$6,614,000) and engineering and design and environmental studies for construction of river dikes at the mouth of the Wabash to reduce future dredging requirements (\$875,000).	Funds will be used for Ohio River maintenance dredging
KY	LRD	ENS, FDRR, REC, WTR	PAINTSVILLE LAKE, KY	\$1,282,000	\$61,000	\$1,343,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

KY	LRD	ENS, FDRR, REC, WTR	ROUGH RIVER LAKE, KY	\$3,461,000	\$100,000	\$3,561,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including flowage easement monitoring to include aerial and land monitoring/surveillance of surveyed easements to identify and prevent additional flowage easement encroachments (\$96,000), removing and sealing the valves and all associated pipe penetrations and raw water intakes at the water control tower (\$380,000), real estate activities at the project (\$200,000), and boundary surveying and rectification (\$120,000).	Funds will be used for project encroachment resolution activities
KY	LRD	ENS, FDRR, REC	TAYLORSVILLE LAKE, KY	\$1,148,000		\$1,148,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$78,000), movement monument surveys (\$20,000), and pest and invasive species management (\$15,000).	
KY	LRD	ENS, HYD, JOINT, REC, WTR	WOLF CREEK DAM, LAKE CUMBERLAND, KY	\$10,313,000		\$10,313,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including boundary surveys (\$175,000) and finalization of the water supply study (\$20,000). As a multiple purpose project with power, the project's budget includes Joint activities, with \$2,700,000 shared between business lines as follows: HYD – 44% and FRM – 56%. Funds will also be used for specific work activities including a monumentation survey (\$104,000).	
KY	LRD	ENS, FDRR, REC, WTR	YATESVILLE LAKE, KY	\$1,889,000	\$21,000	\$1,910,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$47,000); repairing, repacking, and resealing hydraulic cylinders (\$20,000); replacing the mobile truck crane (\$400,000), and water supply reallocation study (\$200,000).	Funds will be used for operations for recreation
LA	MVD	NHD	ATCHAFALAYA RIVER AND BAYOU CHENE, BOEUF & BLACK, LA	\$12,675,000	\$3,025,000	\$15,700,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$12,350,000).	Funds will be used for maintenance dredging for navigation.
LA	MVD	NHS	BARATARIA BAY WATERWAY, LA	\$100,000	\$2,500,000	\$2,600,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
LA	MVD	ENS, FDRR, REC	BAYOU BODCAU RESERVOIR, LA	\$1,289,000	\$425,000	\$1,714,000	6	Funds are being used for commonly performed O&M work. Funds will also include work on the conservation and protection of soil, water, wetland, vegetation, waterfowl, fish and state and Federal endangered and threatened species of approximately 33,000 acres of fee owned property. Primary activities include forest management, wildlife management, oversight and management of mitigation areas, wildland fire protection, operational management plan update, historic property management and conduction of cultural resource surveys.	Funds will be used for updating of the operation management plan, Bayou Bodcau Dam slough slide repair
LA	MVD	NHS	BAYOU LAFOURCHE AND LAFOURCHE JUMP WATERWAY, LA	\$100,000		\$100,000		Funds are being used for commonly performed O&M work.	
LA	MVD	FDRR	BAYOU PIERRE, LA	\$33,000		\$33,000		Funds are being used for commonly performed O&M work.	
LA	MVD	NHS	BAYOU SEGNETTE WATERWAY, LA	\$10,000		\$10,000		Funds are being used for commonly performed O&M work.	
LA	MVD	NHS	BAYOU TECHE AND VERMILION RIVER, LA	\$0	\$240,000	\$240,000	5		Funds will be used for studies and surveys for navigation and maintenance dredging
LA	MVD	NHS	BAYOU TECHE, LA	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
LA	MVD	FDRR, REC	CADDO LAKE, LA	\$208,000		\$208,000		Funds are being used for commonly performed O&M work.	
LA	MVD	NHD	CALCASIEU RIVER AND PASS, LA	\$18,639,000	\$7,850,000	\$26,489,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for operation and maintenance for navigation, maintenance of dredged material disposal facilities
LA	MVD	NHD	CALCASIEU RIVER AND PASS, LA	\$0	\$1,096,425	\$1,096,425	3		Donor and Energy Transfer Port
LA	MVD	NHS	FRESHWATER BAYOU, LA	\$759,000	\$700,000	\$1,459,000	1	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities to perform periodic assessment, inspections and reports (\$100,000).	Funds will be used for operation for navigation
LA	MVD	NIH, REC	GULF INTRACOASTAL WATERWAY, LA	\$30,185,000	\$100,000	\$30,285,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dewatering of Calcasieu Lock along with gate repairs and dredging in the New Orleans Harbor area (\$7,500,000).	Funds will be used for administration of contract for Inner Harbor Navigation Channel floating guidewall

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

LA	MVD	NHS	HOUMA NAVIGATION CANAL, LA	\$100,000	\$4,000,000	\$4,100,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for Houma Navigation Canal dredging
LA	MVD	FDRR	INSPECTION OF COMPLETED WORKS, LA	\$1,069,000		\$1,069,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
LA	MVD	ENS, NIL, REC	J BENNETT JOHNSTON WATERWAY, LA	\$11,881,000	\$1,430,000	\$15,135,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging for navigation, hydraulic steel structures inspections, and dewatering and inspection of the Overton lock and dam (\$5,750,000).	Funds will be used for channel improvement dredging critical to maintain inland navigation, studies and condition surveys
LA	MVD	NIL	J BENNETT JOHNSTON WATERWAY, LA		\$1,540,000		5		Funds will be used for maintenance of locks and dams, management of waterway, water management equipment for navigation, water management data collection water management data analysis, hydraulic steel structures and bridge safety programs management, analysis of lindy claiborne boggs lock and dam tainter gates, condition surveys
LA	MVD	ENS	J BENNETT JOHNSTON WATERWAY, LA		\$284,000		6		Funds will be used for operation and maintenance of the Grand Ecore Visitor Center and the J. Bennett Johnston Regional Visitor Center on the Red River.
LA	MVD	NHS	LAKE PROVIDENCE HARBOR, LA	\$1,315,000		\$1,315,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,300,000).	
LA	MVD	NHS	MADISON PARISH PORT, LA	\$0	\$207,000	\$207,000	5		Funds will be used for studies and surveys for navigation and maintenance dredging for Madison Parish Port
LA	MVD	NHD	MERMENTAU RIVER, LA	\$1,540,000	\$11,300,000	\$12,840,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspections for dam safety for navigation (\$200,000).	Funds will be used for operation and maintenance for navigation, maintenance dredging
LA	MVD	NHS	MISSISSIPPI RIVER OUTLETS AT VENICE, LA	\$200,000	\$12,500,000	\$12,700,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
LA	MVD	NHD	MISSISSIPPI RIVER, BATON ROUGE TO THE GULF OF MEXICO, LA	\$89,169,000	\$58,660,000	\$151,682,575	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging for navigation from New Orleans to Baton Rouge and to Gulf (\$85,142,000).	Funds will be used for operation and maintenance for navigation, maintenance dredging
LA	MVD	NHD	MISSISSIPPI RIVER, BATON ROUGE TO THE GULF OF MEXICO, LA		\$3,853,575		3		Donor and Energy Transfer Port
LA	MVD	NOTH	PROJECT CONDITION SURVEYS, LA	\$11,000	\$60,000	\$71,000	2	Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	Funds will be used for studies and surveys for navigation
LA	MVD	NOTH	REMOVAL OF AQUATIC GROWTH, LA	\$250,000		\$250,000		Funds are being used for commonly performed O&M work.	
LA	MVD	NHS	TANGIPAHOA RIVER, LA	\$0	\$10,000	\$20,000	1		Funds will be used for operation for navigation
LA	MVD	NHS	TANGIPAHOA RIVER, LA		\$10,000		5		Funds will be used for studies and surveys for navigation
LA	MVD	FDRR, REC	WALLACE LAKE, LA	\$245,000	\$80,000	\$325,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for repair of Wallace Lake Dam Slide
LA	MVD	NHS	WATERWAY FROM EMPIRE TO THE GULF, LA	\$14,000		\$14,000		Funds are being used for commonly performed O&M work.	
LA	MVD	NHS	WATERWAY FROM INTRACOASTAL WATERWAY TO BAYOU DULAC, LA	\$0	\$10,000	\$30,000	1		Funds will be used for operations for navigation
LA	MVD	NHS	WATERWAY FROM INTRACOASTAL WATERWAY TO BAYOU DULAC, LA		\$20,000		5		Funds will be used for studies and surveys for navigation
MA	NAD	ENS, FDRR, REC	BARRE FALLS DAM, MA	\$888,000		\$888,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairing the Pine Plains Road Bridge (\$70,000) and replace the furnace and fuel tank (\$38,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MA	NAD	ENS, FDRR, REC	BIRCH HILL DAM, MA	\$886,000	\$15,000	\$901,000	6	Funds are being used for commonly performed O&M work. Funds will also be used to perform specific work activities including required bridge inspections (\$22,000) and replacement of hoiler (\$31,000).	Funds will be used for operations and maintenance for recreation
MA	NAD	NHD	BOSTON HARBOR, MA	\$7,150,000		\$7,150,000		Funds are being used for specific work activities including maintenance dredging of the harbor area in conjunction with the improvement dredging (\$7,150,000).	
MA	NAD	ENS, FDRR, REC	BUFFUMVILLE LAKE, MA	\$731,000		\$731,000		Funds are being used for commonly performed O&M work.	
MA	NAD	ENS, NHD, REC	CAPE COD CANAL, MA	\$7,742,000	\$2,412,000	\$10,154,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including conducting required inspection of Sagamore Highway Bridge and vegetation plantings, wildlife habitat preservation and managing nature trails.	Funds will be used for maintenance for navigation, completion of major rehabilitation evaluation report for Sagamore and Bourne highway bridges
MA	NAD	ENS, FDRR, REC	CHARLES RIVER NATURAL VALLEY STORAGE AREA, MA	\$391,000		\$391,000		Funds are being used for commonly performed O&M work.	
MA	NAD	ENS, FDRR, REC	CONANT BROOK LAKE, MA	\$334,000	\$32,000	\$366,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including construction of a site for park host/trailer (\$25,000) and install water well and septic field (\$30,000).	Funds will be used for operations and maintenance for recreation
MA	NAD	ENS, FDRR, REC	EAST BRIMFIELD LAKE, MA	\$684,000		\$684,000		Funds are being used for commonly performed O&M work.	
MA	NAD	ENS, FDRR, REC	HODGES VILLAGE DAM, MA	\$725,000		\$725,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including update emergency action plan (\$25,000) and conduct bridge inspections (\$9,000).	
MA	NAD	FDRR	INSPECTION OF COMPLETED WORKS, MA	\$348,000		\$348,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MA	NAD	ENS, FDRR, REC	KNIGHTVILLE DAM, MA	\$1,252,000	\$31,000	\$1,283,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including install weirs at toe wall (\$15,000), conduct service bridge repairs (\$454,000), replace log boom logs (\$100,000), and pest and invasive species management (\$8,000).	Funds will be used for operations for recreation
MA	NAD	ENS, FDRR, REC, WTR	LITTLEVILLE LAKE, MA	\$721,000	\$35,000	\$756,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including modifying seepage monitoring system (\$50,000).	Funds will be used for operations for recreation
MA	NAD	FDRC	NEW BEDFORD FAIRHAVEN AND ACUSHNET HURRICANE BARRIER, MA	\$505,000		\$505,000		Funds are being used for commonly performed O&M work.	
MA	NAD	NOTH	PROJECT CONDITION SURVEYS, MA	\$950,000		\$950,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
MA	NAD	ENS, FDRR, REC	TULLY LAKE, MA	\$914,000		\$914,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$8,000), replacing basin and project office heating systems (\$25,000), and replace vinyl siding on three buildings (\$75,000).	
MA	NAD	ENS, FDRR, REC	WEST HILL DAM, MA	\$1,034,000		\$1,034,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including bride inspections (\$17,000), replacing the gatehouse generator (\$50,000), replacing three sluice gate operators (\$60,000), replacing a backhoe (\$90,000), and initiating a master plan (\$100,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MA	NAD	ENS, FDRR, REC	WESTVILLE LAKE, MA	\$1,050,000		\$1,050,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$12,000), conducting a bathymetric sediment survey (\$12,000), repairs to Old South Street Bridge (\$206,000), replace the gatehouse roof (\$65,000), and initiating a master plan (\$100,000).	
MD	NAD	NHS	BACK CREEK, MD	\$13,000		\$13,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHD	BALTIMORE HARBOR AND CHANNELS (50 FOOT), MD	\$23,645,000	\$4,950,000	\$28,595,000	3	Funds are being used for commonly performed O&M work. Funds will also provide for specific work activities to include the restoration of authorized dimensions through maintenance dredging of the waterway. Channels scheduled for maintenance dredging include Cape Henry and Craighill Angle channels. Funds will also provide for conducting condition surveys to report channel conditions and to continue studies on the Dredged Material Management Plan.	Donor and Energy Transfer Port
MD	NAD	NHD	BALTIMORE HARBOR, MD (DRIFT REMOVAL)	\$415,000		\$415,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHS	CLAIBORNE HARBOR, MD	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
MD	NAD	FDRR	CUMBERLAND, MD AND RIDGELEY, WV	\$201,000		\$201,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHS	FISHING CREEK, MD	\$10,000	\$1,350,000	\$1,360,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance for navigation
MD	NAD	NHS	HERRING CREEK, TALL TIMBERS, MD	\$10,000		\$10,000		Funds are being used for commonly performed O&M work.	
MD	NAD	FDRR	INSPECTION OF COMPLETED WORKS, MD	\$126,000		\$126,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MD	NAD	ENS, FDRR, REC, WTR	JENNINGS RANDOLPH LAKE, MD & WV	\$6,285,000	\$39,000	\$6,324,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations for recreation
MD	NAD	NHS	KNAPPS NARROWS, MD	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHS	LOWER THOROFARE, DEAL ISLAND, MD	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHS	MIDDLE RIVER & DARK HEAD CREEK, MD	\$3,000		\$3,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHS	NEAVITT HARBOR, MD	\$3,000		\$3,000		Funds are being used for commonly performed O&M work.	
MD	NAD	NHS	OCEAN CITY HARBOR AND INLET AND SINEPUXENT BAY, MD	\$5,000	\$250,000	\$255,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
MD	NAD	NOTH	PROJECT CONDITION SURVEYS, MD	\$485,000		\$485,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
MD	NAD	NHS	ROCK HALL HARBOR, MD	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
MD	NAD	ENS, FDRR	SCHEDULING RESERVOIR OPERATIONS, MD	\$173,000		\$173,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
MD	NAD	NHS	WICOMICO RIVER, MD	\$4,000,000		\$4,000,000		Funding will provide for specific work activities to include the removal of critical shoals through maintenance dredging of the waterway. Channels in the upper river near Salisbury are scheduled for maintenance dredging.	
ME	NAD	NHD	DISPOSAL AREA MONITORING, ME	\$1,050,000		\$1,050,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

ME	NAD	FDRR	INSPECTION OF COMPLETED WORKS, ME	\$100,000		\$100,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
ME	NAD	NOTH	PROJECT CONDITION SURVEYS, ME	\$1,000,000		\$1,000,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
ME	NAD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ME	\$30,000		\$30,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
MI	LRD	NHD	CHANNELS IN LAKE ST CLAIR, MI	\$190,000		\$190,000		Funds are being used for commonly performed O&M work.	
MI	LRD	ENS, NHD	DETROIT RIVER, MI	\$6,882,000	\$1,000,000	\$7,882,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging activities (\$2,000,000), maintenance of the dredged material disposal facility (\$1,000,000), strike removal (\$2,690,000), and updating and finalizing the Master Plan (\$33,000).	Funds will be used for dredging for navigation
MI	LRD	NHD	FRANKFORT HARBOR, MI	\$0	\$248,000	\$248,000	2		Funds will be used for maintenance of coastal structures for navigation
MI	LRD	ENS, NHD	GRAND HAVEN HARBOR, MI	\$1,768,000		\$1,768,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging of the inner/outer harbor (\$1,500,000) and engineering and design for repair to the north breakwater (\$250,000).	
MI	LRD	NHS	HAMMOND BAY HARBOR, MI	\$0	\$350,000	\$350,000	5		Funds will be used for maintenance of coastal structures for navigation
MI	LRD	NHD	HOLLAND HARBOR, MI	\$600,000		\$600,000		Funds are being used for specific work activities including maintenance dredging of the outer harbor portion of the project (\$600,000).	
MI	LRD	NHS	INLAND ROUTE, MI	\$0	\$50,000	\$50,000	5		Funds will be used for maintenance of locks for navigation
MI	LRD	FDRR	INSPECTION OF COMPLETED WORKS, MI	\$260,000		\$260,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MI	LRD	ENS, REC	KEWEENAW WATERWAY, MI	\$27,000	\$235,000	\$262,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for repair lower entry navigation structures
MI	LRD	NHS	LEXINGTON HARBOR, MI	\$0	\$350,000	\$350,000	5		Funds will be used for maintenance of coastal structures for navigation
MI	LRD	NHD	LUDINGTON HARBOR, MI	\$500,000		\$500,000		Funds are being used for specific work activities including maintenance dredging (\$500,000).	
MI	LRD	NHD	MANISTEE HARBOR, MI	\$0	\$200,000	\$200,000	2		Funds will be used for maintenance of coastal structures for navigation
MI	LRD	NHD	MANISTIQUE HARBOR, MI	\$0	\$200,000	\$200,000	2		Funds will be used for maintenance of coastal structures for navigation
MI	LRD	NHD	MUSKEGON HARBOR, MI	\$0	\$3,000,000	\$3,000,000	2		Funds will be used for south breakwater connector repair

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MI	LRD	NOTH	PROJECT CONDITION SURVEYS, MI	\$833,000		\$833,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
MI	LRD	NHD	ROUGE RIVER, MI	\$400,000		\$400,000		Funds are being used for commonly performed O&M work.	
MI	LRD	NHD	SAGINAW RIVER, MI	\$2,425,000	\$200,000	\$2,625,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including incremental dike raising of the Bay CDF (\$1,500,000), ground water sampling at the Upper Saginaw DDMF (\$325,000), and E&D for the rehabilitation of the Upper DDMF Weir & Outfall (\$200,000).	Funds will be used for studies and surveys for navigation
MI	LRD	FDRR	SEBEWAING RIVER, MI	\$531,000		\$531,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairs to 150 feet of the failing anchored steel sheet pile wall (\$475,000).	
MI	LRD	NHD	ST CLAIR RIVER, MI	\$1,510,000	\$1,500,000	\$3,010,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$800,000) and strike removal (\$490,000).	Funds will be used for dredging for navigation
MI	LRD	NHD	ST JOSEPH HARBOR, MI	\$1,500,000		\$1,500,000		Funds are being used for specific work activities including maintenance dredging of the inner and outer harbors (\$1,500,000).	
MI	LRD	ENS, HYD, JOINT, NHD, REC	ST MARYS RIVER, MI	\$28,333,000	\$15,716,000	\$44,289,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including strike removal in the channel (\$3,390,000), dewatering of one lock (\$400,000), repairs to the Poe Lock Gate 1 (\$2,000,000) and updating the project's master plan (\$55,000). As a multiple purpose project with power, the project's budget includes joint activities, with a total allocation of \$2,359,000 shared between business lines as follows: HYD – 10%, NAV – 89%, and REC – 1%.	Funds will be used for maintenance for navigation, asset renewal of crane and floatable barge system, rehabilitation of facility steamplant, installation of boilers, replacement of security camera and waterway safety signs, studies and surveys for navigation features, engineering and design for repairs to dewatering gate 4, macarthur lock ship arrestor and center dike.
MI	LRD	HYD, JOINT	ST MARYS RIVER, MI		\$240,000		6		Funds will be used for replacement of security camera, performance of engineering and design to replace medium voltage circuit breaker and repair of powerhouse crane
MI	LRD	FDRC	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MI	\$3,138,000		\$3,138,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
MN	MVD	ENS, FDRC	BIGSTONE LAKE - WHETSTONE RIVER, MN & SD	\$462,000		\$462,000		Funds are being used for commonly performed O&M work. Funding for specific work activities include completing a periodic inspection, and completing several minor maintenance items.	
MN	LRD	ENS, NHD, REC	DULUTH - SUPERIOR HARBOR, MN & WI	\$7,540,000	\$11,000,000	\$18,540,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$3,000,000), navigation structure repairs using government equipment (\$3,150,000), and updating the project's Master Plan (\$33,000).	Funds will be used for repair of north pier
MN	MVD	FDRC	INSPECTION OF COMPLETED WORKS, MN	\$240,000		\$240,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MN	MVD	ENS, FDRR, REC	LAC QUI PARLE LAKES, MINNESOTA RIVER, MN	\$1,349,000	\$6,023,000	\$7,372,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairs to the Lac Qui Parle dam control structure concrete and Chippewa Diversion tainter gate, road and spillway repairs, and energy efficiency upgrades. (\$520,000).	Funds will be used for rehabilitation of dam gate machinery, operations for environmental stewardship
MN	MVD	NHS, NIL	MINNESOTA RIVER, MN	\$260,000		\$260,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$255,000).	
MN	MVD	ENS, NIH, REC	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS (MVP PORTION), MN	\$71,737,000	\$1,500,000	\$73,237,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including lighting upgrades at multiple sites, replacement of miter gates at Locks 5A and 10, dewatering inspection and maintenance at Lock 4, dredging, and use of mechanical dredging equipment for material unloading at multiple placement sites (\$39,898,000). Funds will also be used for specific work activities of boundary surveying and rectification (\$66,000).	Funds will be used for installation of auxiliary chamber sheet pile closure at Lock 5, guidewall crib rehabilitation at Lock 5a, strengthening of embankment at structures at Lock 4, replacement of miter gate anchorages at Lock 2, preparation of dredged material management plans
MN	MVD	ENS, FDRR, REC	ORWELL LAKE, MN	\$508,000		\$508,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities to replace an automated data acquisition system, damaged shrouds and siphoning pipes (\$70,000).	
MN	MVD	NOTH	PROJECT CONDITION SURVEYS, MN	\$103,000		\$103,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe	
MN	MVD	ENS, FDRR	RED LAKE RESERVOIR, MN	\$143,000		\$143,000		Funds are being used for commonly performed O&M work.	
MN	MVD	ENS, FDRR, REC	RESERVOIRS AT HEADWATERS OF MISSISSIPPI RIVER, MN	\$5,244,000		\$5,244,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including design for future repairs, stop log replacement, energy efficiency improvements at multiple locations (\$1,272,000), and re-survey and re-mark project boundaries at 5 of the 6 project sites (\$150,000).	
MN	LRD, MVD	FDRC, FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, MN	\$246,000		\$246,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
MO	MVD	NHS	CARUTHERSVILLE HARBOR, MO	\$615,000		\$615,000		Funds are being used for commonly performed O&M work.	
MO	MVD	ENS, FDRR, HYD, JOINT, REC, WTR	CLARENCE CANNON DAM AND MARK TWAIN LAKE, MO	\$6,955,000	\$212,000	\$7,167,000	6	Funds are being used for commonly performed O&M work. The budgeted amount for hydropower includes \$892,000 for project features jointly used by multiple business lines: FRM - 60%, EN - 3%, WS - 7% and REC - 30%.	Funds will be used for boundary line definition, flowage easement mapping and monumentation, Joanna road easement, maintenance for water supply
MO	SWD	ENS, FDRR, REC	CLEARWATER LAKE, MO	\$3,740,000		\$3,740,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including repair bronze side seals on three service gates (\$450,000) and relocating group shelter in Webb Creek Park (\$125,000).	
MO	NWD	ENS, HYD, JOINT, REC, WTR	HARRY S TRUMAN DAM AND RESERVOIR, MO	\$11,638,000		\$11,638,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$2,592,000 for project features jointly used by multiple business lines: HYD - 21%, FRM - 50%, EN - 16%, and REC - 14%.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MO	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, MO	\$2,000		\$2,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
MO	MVD	FDRR	INSPECTION OF COMPLETED WORKS, MO	\$1,512,000		\$1,512,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MO	NWD	ENS, FDRR, REC	LITTLE BLUE RIVER LAKES, MO	\$1,347,000		\$1,347,000		Funds are being used for commonly performed O&M work.	
MO	NWD	ENS, FDRR, REC, WTR	LONG BRANCH LAKE, MO	\$3,282,000		\$3,282,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an emergency gate stem and hydraulic system repair (\$1,600,000) and replacement of a buried collector system (\$600,000).	
MO	MVD	ENS, FDRR, NIH, REC	MISSISSIPPI RIVER BETWEEN THE OHIO AND MISSOURI RIVERS (REG WORKS), MO & IL	\$30,821,000		\$30,821,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging, dike and revetment repairs, lock modification and maintenance (\$9,765,000).	
MO	MVD	NHS	NEW MADRID COUNTY HARBOR, MO	\$0	\$525,000	\$525,000	5		Funds will be used for studies and surveys for navigation and maintenance dredging.
MO	MVD	NHS	NEW MADRID HARBOR, MO (MILE 889)	\$0	\$15,000	\$15,000	1		Funds will be used for surveys for maintenance dredging.
MO	NWD	ENS, FDRR, REC, WTR	POMME DE TERRE LAKE, MO	\$2,767,000	\$117,000	\$2,884,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including a continuing reallocation study (\$300,000).	Funds will be used for maintenance for recreation.
MO	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, MO	\$172,000		\$172,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
MO	NWD	ENS, FDRR, REC, WTR	SMITHVILLE LAKE, MO	\$1,606,000	\$150,000	\$1,756,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for shoreline protection bank stabilization.
MO	MVD	NHS	SOUTHEAST MISSOURI PORT, MISSISSIPPI RIVER, MO	\$409,000		\$409,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging the authorized channel within the port (\$400,000).	
MO	NWD	ENS, HYD, JOINT, REC, WTR	STOCKTON LAKE, MO	\$5,691,000	\$80,000	\$5,771,000	6	Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,955,000 for project features jointly used by multiple business lines: HYD - 0.04%, FRM - 69.9%, and REC - 30.03%.	Funds will be used for installation of sewage lift station for Stockton Lake, Missouri.
MO	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	TABLE ROCK LAKE, MO & AR	\$10,331,000		\$10,331,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities, including acquire a backhoe for in-house maintenance repairs (\$80,000), and replace skid steer (\$40,000). Funds will also be used for specific work activities, including conduct a power review (\$75,000). Funds will also be used for specific work activities, including complete the shoreline management plan (\$30,000) and survey the Cow Creek boundary line (\$210,000). Funds will also be used for specific work activities, including continue water supply reallocation study (\$200,000). As a multiple purpose project with power, the project's budget includes joint activities, with a total allocation of \$888,000 shared between business lines as follows: HYD 73% and FRM 27%.	
MS	SAD	NHS	BILOXI HARBOR, MS	\$1,748,000		\$1,748,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,668,000).	
MS	SAD	FDRR	EAST FORK, TOMBIGBEE RIVER, MS	\$290,000		\$290,000		Funds are being used for commonly performed O&M work.	
MS	SAD	NHD	GULFPORT HARBOR, MS	\$3,215,000	\$4,000,000	\$7,215,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,000,000).	Funds will be used for bend easing.

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MS	SAD	FDRR	INSPECTION OF COMPLETED WORKS, MS	\$116,000		\$116,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MS	MVD	NHS	MOUTH OF YAZOO RIVER, MS	\$30,000		\$30,000		Funds are being used for commonly performed O&M work.	
MS	SAD	ENS, FDRR, REC, WTR	OKATIBBEE LAKE, MS	\$1,740,000		\$1,740,000		Funds are being used for commonly performed O&M work. Sustainability funds in the amount of \$16,000 will be used for replace existing HVAC system. Funds are being used for commonly performed O&M for environmental stewardship. Funds are being used for specific work activities including surveys for historic properties plan (\$50,000).	
MS	SAD	NHD	PASCAGOULA HARBOR, MS	\$6,151,000	\$1,750,000	\$7,901,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$5,791,000)	Funds will be used for maintenance dredging
MS	MVD	NIL	PEARL RIVER, MS & LA	\$89,000	\$9,000	\$98,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for real estate management for navigation
MS	MVD	NOTH	PROJECT CONDITION SURVEYS, MS	\$131,000		\$131,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
MS	MVD	NHS	ROSEDALE HARBOR, MS	\$935,000		\$935,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging the authorized channel within the harbor (\$900,000)	
MS	SAD	NOTH	WATER/ENVIRONMENTAL CERTIFICATION, MS	\$40,000		\$40,000		Funds are being used for commonly performed O&M work.	
MS	MVD	NHS	YAZOO RIVER, MS	\$30,000		\$30,000		Funds are being used for commonly performed O&M work.	
MT	NWD	ENS, JOINT, REC, WTR	FT PECK DAM AND LAKE, MT	\$5,534,000		\$5,534,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$3,495,000 for O&M of project features jointly used by multiple business lines: HYD - 43.78%, NAV - 23.73%, and FRM - 32.49%. Funds will also be used for specific work (joint) activities including: completing a periodic dam safety inspection and assessment (\$115,000); maintenance of relief well system and piezometers (\$50,000); visual inspection of steel bar plates that connect the emergency spillway gate counterweights to the lifting chains (\$31,000); periodic cultural resources artifacts inventories, collection review and site inspections (\$20,000); and prepare an interim risk reduction measure plan (\$20,000).	
MT	NWD	FDRR	INSPECTION OF COMPLETED WORKS, MT	\$154,000		\$154,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
MT	NWD	ENS, JOINT, REC	LIBBY DAM, MT	\$2,636,000		\$2,636,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,900,000 for project features jointly used by multiple business lines: FRM - 100.0%. Non-routine joint activities include NEPA analysis of the Columbia River Basin Operations (\$216,000); sluice gate emergency bulkhead replacement (\$220,000); and left abutment landslide detection equipment (\$110,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

MT	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, MT	\$125,000		\$125,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
NC	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, NC	\$5,590,000		\$5,590,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,695,000) and clearing and snagging (\$40,000).	
NC	SAD	ENS, FDRR, REC, WTR	B EVERETT JORDAN DAM AND LAKE, NC	\$4,781,000		\$4,781,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including plans and specifications to replace rip rap (\$150,000), inspection of vehicle access bridge (\$20,000), replace/refurbish two water control gates (\$540,000) and Dam Safety Inspections of conduit (\$360,000), Tower interior and gates (\$1,880,000), and toe drain system (\$37,000). Funds will also be used for specific work activities including Operation Condition Assessment (\$10,000).	
NC	SAD	NHS, REC	CAPE FEAR RIVER ABOVE WILMINGTON, NC	\$401,000	\$64,000	\$465,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation
NC	SAD	ENS, FDRR, REC, WTR	FALLS LAKE, NC	\$3,275,000	\$22,000	\$3,297,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection of vehicle access bridge and surface on Falls control tower (\$20,000), installation of Weir and monitor discharge (\$50,000), restoration of stem guide for service gate 5 (\$125,000), refurbishment/replacement of the first of four main water control gates (\$545,000), replace and repair piezometer (\$62,000), addition of downstream piezometers (\$75,000), revise Dam Safety communication plan (\$15,000), toe drain inspection and repair (\$150,000) and repair undermined riprap (\$75,000). Funds will also be used for specific work activities including integrated cultural resource management plan surveys (\$500,000).	Funds will be used for maintenance for recreation
NC	SAD	FOTH	INSPECTION OF COMPLETED WORKS, NC	\$190,000		\$190,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NC	SAD	NHS	MANTEO (SHALLOWBAG) BAY, NC	\$1,550,000		\$1,550,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$960,000).	
NC	SAD	NHS	MASONBORO INLET AND CONNECTING CHANNELS, NC	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NC	SAD	NHD	MOREHEAD CITY HARBOR, NC	\$5,570,000	\$5,020,000	\$10,590,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,615,000).	Funds will be used for maintenance dredging
NC	SAD	NHS, NIL	NEW RIVER INLET, NC	\$3,555,000		\$3,555,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$3,525,000).	
NC	SAD	NOTH	PROJECT CONDITION SURVEYS, NC	\$700,000		\$700,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
NC	SAD	NHS	ROLLINSON CHANNEL, NC	\$790,000	\$50,000	\$2,785,000	1	Funds are being used for specific work activities including dredging (\$790,000).	Funds will be used for surveys for maintenance dredging and supervision and administration maintenance dredging
NC	SAD	NHS	ROLLINSON CHANNEL, NC		\$1,945,000		5		Funds will be used for studies and surveys for navigation and maintenance dredging

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

NC	SAD	NHS	SILVER LAKE HARBOR, NC	\$1,085,000		\$1,085,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,085,000).	
NC	SAD	ENS, FDRR, REC, WTR	W KERR SCOTT DAM AND RESERVOIR, NC	\$3,417,000	\$10,000	\$3,427,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Dam safety periodic inspection (\$65,000). There is a total of \$100,000 for sustainability work on the project to upgrade the HVAC system. Funds will also be used for specific work activities including renegotiation of water supply agreements (\$10,000).	Funds will be used for operations for recreation
NC	SAD	NHD	WILMINGTON HARBOR, NC	\$14,715,000	\$2,000	\$16,717,000	1	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$12,895,000), clearing and snagging (\$250,000), and complete DMMP (\$150,000).	Funds will be used for geospatial land data migration
NC	SAD	NHD	WILMINGTON HARBOR, NC		\$2,000,000		2		Funds will be used for maintenance dredging
ND	NWD	ENS, FDRR, REC	BOWMAN HALEY, ND	\$328,000		\$328,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including: updating hydrology and routing the inflow design flood (\$80,000) and dam safety surveys (\$44,000).	
ND	NWD	ENS, FDRR, HYD, JOINT, REC, WTR	GARRISON DAM, LAKE SAKAKAWEA, ND	\$15,769,000		\$15,769,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Williston Levee inundation mapping (\$40,000), dam safety surveys for periodic inspection (\$35,000), Williston pumping plant stilling basin remote operated vehicle (ROV) inspection (\$53,000), a sustainability package for the installation of a water line to connect the downstream camp loops to a local water supply source (\$20,000), an underwater bridge inspection at the Garrison intake structure bridge (\$20,000), cultural site surveys (\$150,000), boundary locating and monitoring and fencing (\$286,000), and for additional pest and invasive species management (\$227,000). The budgeted amount for the project includes \$5,457,000 for project features jointly used by multiple business lines: HYD - 43.78%, NAV - 23.73%, and FRM - 32.49. %. Funds will also be used for specific work activities including: testing and analysis to determine spillway gate fitness for service (\$385,000); assessment and rehabilitation of Snake Creek Relief Wells (\$170,000); to prepare an interim risk reduction measure plan for the Snake Creek Embankment (\$20,000); and perform a periodic artifacts inventory, collection review and site inspection (\$20,000).	
ND	MVD	ENS, FDRR	HOMME LAKE, ND	\$337,000		\$337,000		Funds are being used for commonly performed O&M work.	
ND	MVD	FDRR	INSPECTION OF COMPLETED WORKS, ND	\$530,000		\$530,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
ND	MVD	ENS, FDRR, REC	LAKE ASHTABULA AND BALDHILL DAM, ND	\$1,999,000		\$1,999,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including increasing energy efficiency upgrades to office buildings (237,000) and to update the master plan and plan development for shoreline erosion (350,000).	
ND	NWD	ENS, FDRR, REC	PIPESTEM LAKE, ND	\$503,000		\$503,000		Funds are being used for commonly performed O&M work.	
ND	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, ND	\$123,000		\$123,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
ND	MVD	FDRR	SOURIS RIVER, ND	\$2,029,000		\$2,029,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of dam bulkheads and repairs of the tainter gate at Lake Darling dam (\$1,755,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

ND	MVD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, ND	\$85,000		\$85,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
NE	NWD	ENS, HYD, JOINT, REC, WTR	GAVINS POINT DAM, LEWIS AND CLARK LAKE, NE & SD	\$10,087,000		\$10,087,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$4,139,000 for project features jointly used by multiple business lines: HYD - 43.78%, NAV - 23.73%, and FRM - 32.49%. Funds will also be used for specific work (joint) activities including: perform fit-for-service analysis of the project's tainter gates (\$165,000) and periodic artifacts inventories, collection review and site inspections (\$10,000).	
NE	NWD	ENS, FDRR, REC	HARLAN COUNTY LAKE, NE	\$2,337,000	\$30,000	\$2,367,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including the replacement of a motor grader (\$260,000).	Funds will be used for operations for recreation
NE	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NE	\$3,000		\$3,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
NE	NWD	FDRR	INSPECTION OF COMPLETED WORKS, NE	\$466,000		\$466,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NE	NWD	FDRR	MISSOURI RIVER - KENSLERS BEND, NE TO SIOUX CITY, IA	\$46,000		\$46,000		Funds are being used for commonly performed O&M work.	
NE	NWD	ENS, FDRR, REC	PAPILLION CREEK, NE	\$858,000		\$858,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including scoping and drafting of a new project master plan (\$38,000) and performance of a dam safety survey (\$30,000).	
NE	NWD	ENS, FDRR, REC	SALT CREEKS AND TRIBUTARIES, NE	\$3,347,000		\$3,347,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including: construct outlet conduit seepage filters at Antelope Creek, Yankee Hill, Twin Lakes and Bluestem (\$2,000,000), security risk assessments at all 10 Salt Creek projects (\$135,000), and work on dam failure inundation modeling and mapping for Salt Creek dams (\$93,000).	
NH	NAD	ENS, FDRR, REC	BLACKWATER DAM, NH	\$823,000		\$823,000		Funds are being used for commonly performed O&M work.	
NH	NAD	ENS, FDRR, REC	EDWARD MACDOWELL LAKE, NH	\$732,000		\$732,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including management of archeological and cultural resources (\$7,000).	
NH	NAD	ENS, FDRR, REC	FRANKLIN FALLS DAM, NH	\$1,017,000		\$1,017,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including conduct required Periodic Inspection of project (\$95,000), inspection of 8 public use bridges scheduled for inspection (\$44,000), and log boom replacement (\$125,000).	
NH	NAD	NHS	HAMPTON HARBOR, NH	\$0	\$4,600,000	\$4,600,000	5		Funds will be used for Hampton Harbor emergency dredging
NH	NAD	ENS, FDRR, REC	HOPKINTON - EVERETT LAKES, NH	\$1,857,000		\$1,857,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including conduct periodic inspection of the project (\$95,000), conduct required bridge inspections (\$8000), and concrete and metal repairs (\$190,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

NH	NAD	FDRR	INSPECTION OF COMPLETED WORKS, NH	\$90,000		\$90,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NH	NAD	ENS, FDRR, REC	OTTER BROOK LAKE, NH	\$1,395,000		\$1,395,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including bridge inspections (\$11,000), project office addition (\$411,000), repair borrow area (\$60,000) and evaluate seismic safety of project (\$120,000).	
NH	NAD	NHD	PORTSMOUTH HARBOR AND PISCATAQUA RIVER, NH	\$0	\$80,000	\$80,000	2		Funds will be used for maintenance dredging
NH	NAD	NOTH	PROJECT CONDITION SURVEYS, NH	\$300,000		\$300,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
NH	NAD	ENS, FDRR, REC	SURRY MOUNTAIN LAKE, NH	\$801,000		\$801,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including invasive plant survey (\$30,000) and reclaiming grassland habitat (\$20,000).	
NJ	NAD	NHS	BARNEGAT INLET, NJ	\$9,000	\$690,000	\$699,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging and operations for navigation
NJ	NAD	NHS	CHEESEQUAKE CREEK, NJ	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NJ	NAD	NHD	COLD SPRING INLET, NJ	\$3,000	\$3,350,000	\$3,353,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for operations for navigation and maintenance dredging
NJ	NAD	NHD	DELAWARE RIVER AT CAMDEN, NJ	\$15,000		\$15,000		Funds are being used for commonly performed O&M work.	
NJ	NAD	NHD	DELAWARE RIVER, PHILADELPHIA TO THE SEA, NJ, PA & DE	\$27,785,000	\$4,350,000	\$32,135,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including annual maintenance dredging of Marcus Hook (\$7,000,000), New Castle (\$4,350,000), Cherry Island (\$4,350,000), maintenance dredging with Government dredge McFarland required training (\$4,000,000), and maintenance of dredged material disposal facilities (\$6,025,000).	Funds will be used for maintenance dredging
NJ	NAD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NJ	\$45,000		\$45,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
NJ	NAD	FDRR	INSPECTION OF COMPLETED WORKS, NJ	\$487,000		\$487,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NJ	NAD	NHS	MANASQUAN RIVER, NJ	\$2,000	\$655,000	\$657,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
NJ	NAD	NHS	NEW JERSEY INTRACOASTAL WATERWAY, NJ	\$50,000	\$2,580,000	\$2,630,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance of dredged material disposal facilities, maintenance dredging and operations for navigation
NJ	NAD	NHD	NEWARK BAY, HACKENSACK AND PASSAIC RIVERS, NJ	\$8,000,000		\$8,000,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging contract for Newark Bay (\$7,950,000).	
NJ	NAD	FDRR	PASSAIC RIVER FLOOD WARNING SYSTEMS, NJ	\$668,000		\$668,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

NJ	NAD	NOTH	PROJECT CONDITION SURVEYS, NJ	\$2,224,000		\$2,224,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
NJ	NAD	NHD	RARITAN RIVER TO ARTHUR KILL CUT-OFF, NJ	\$20,000		\$20,000		Funds are being used for commonly performed O&M work.	
NJ	NAD	NHD	RARITAN RIVER, NJ	\$50,000	\$250,000	\$300,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
NJ	NAD	NHS	SANDY HOOK BAY AT LEONARD, NJ	\$10,000		\$10,000		Funds are being used for commonly performed O&M work.	
NJ	NAD	NHS	SHARK RIVER, NJ	\$0	\$547,000	\$547,000	5		Funds will be used for maintenance dredging
NJ	NAD	NHS	SHOAL HARBOR AND COMPTON CREEK, NJ	\$10,000		\$10,000		Funds are being used for commonly performed O&M work.	
NJ	NAD	NHS	SHREWSBURY RIVER, MAIN CHANNEL, NJ	\$25,000		\$25,000		Funds are being used for commonly performed O&M work.	
NM	SPD	ENS, FDRR, REC, WTR	ABIQUIU DAM, NM	\$3,715,000		\$3,715,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including design of infrastructure repairs (\$200,000), evaluation of grout curtain repairs (\$85,000), stilling basin grouting (\$50,000), new riprap (\$275,000) and installing 9 new roof shelters (\$66,000).	
NM	SPD	ENS, FDRR, REC	COCHITI LAKE, NM	\$3,585,000		\$3,585,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including wireless ethernet purchase (\$45,000), radio remote controller purchase (\$20,000), man basket purchase (\$25,000), plans and specifications for sandblasting and painting service and emergency gates (\$100,000), replace stem packing glands (\$75,000), and plans and specifications for replacing a vehicle bay (\$60,000).	
NM	SPD	ENS, FDRR, REC	CONCHAS LAKE, NM	\$2,726,000		\$2,726,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including installing fire suppression system (\$60,000).	
NM	SPD	ENS, FDRR, REC	GALISTEO DAM, NM	\$935,000	\$5,000	\$940,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including designing resolution of drainage issues (\$30,000) and perimeter fence replacement (\$220,000).	Funds will be used for real estate management for recreation
NM	SPD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, NM	\$27,000		\$27,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
NM	SPD	FDRR	INSPECTION OF COMPLETED WORKS, NM	\$561,000		\$561,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NM	SPD	ENS, FDRR, REC	JEMEZ CANYON DAM, NM	\$849,000	\$23,000	\$872,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including surveying condition of toe drain outlet pipes (\$50,000).	Funds will be used for operations for recreation, real estate management for recreation
NM	SPD	FDRR	MIDDLE RIO GRANDE ENDANGERED SPECIES COLLABORATIVE PROGRAM, NM	\$2,117,000		\$2,117,000		Funds are being used for commonly performed O&M work.	
NM	SPD	ENS, FDRR, REC	SANTA ROSA DAM AND LAKE, NM	\$1,385,000		\$1,385,000		Funds are being used for commonly performed O&M work.	
NM	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, NM	\$199,000		\$199,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

NM	SPD	ENS, FDRR, REC	TWO RIVERS DAM, NM	\$1,056,000	\$17,000	\$1,073,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including electrical upgrades (\$100,000), repair of gullies on Rocky Dam outlet channel (\$30,000), and design of piezometer monitoring plans for both dams (\$150,000).	Funds will be used for operations and maintenance for recreation
NM	SPD	FDRR	UPPER RIO GRANDE WATER OPERATIONS MODEL STUDY, NM	\$746,000		\$746,000		Funds are being used for commonly performed O&M work.	
NV	SPD	FDRR	INSPECTION OF COMPLETED WORKS, NV	\$77,000		\$77,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NV	SPD	ENS, FDRR, REC	MARTIS CREEK LAKE, NV & CA	\$1,278,000		\$1,278,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of accelerographs (\$50,000) and preparation of plans and specifications for drainage system repairs (\$150,000).	
NV	SPD	ENS, FDRR	PINE AND MATHEWS CANYONS LAKES, NV	\$816,000		\$816,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repair or replacement of security fencing and gates at both dams (\$130,000).	
NY	NAD	ENS, FDRR, REC	ALMOND LAKE, NY	\$741,000		\$741,000		Funds are being used for commonly performed O&M work.	
NY	NAD	ENS, FDRR	ARKPORT DAM, NY	\$330,000		\$330,000		Funds are being used for commonly performed O&M work.	
NY	LRD	NHS	BARCELONA HARBOR, NY	\$0	\$70,000	\$70,000	1		Funds will be used for sediment sampling and analysis
NY	NAD	NHD	BAY RIDGE AND RED HOOK CHANNELS, NY	\$25,000	\$275,000	\$300,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
NY	LRD	ENS, NHD	BLACK ROCK CHANNEL AND TONAWANDA HARBOR, NY	\$6,235,000	\$550,000	\$6,785,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including the repair of lower operating gate (\$2,595,000), replacement of the pintles (\$1,655,000), maintenance of security features (\$60,000), and Operational Condition Assessments.	Funds will be used for engineering and design of motor control center, design of miter gate
NY	NAD	NHS	BRONX RIVER, NY	\$30,000	\$250,000	\$280,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
NY	NAD	NHS	BROWNS CREEK, NY	\$30,000		\$30,000		Funds are being used for commonly performed O&M work.	
NY	LRD	NHD	BUFFALO HARBOR, NY	\$3,055,000	\$12,455,000	\$15,510,000	2	Funds are being used for specific work activities including repair of approximately 200 linear feet of the armor stone layer on the lake side of the CDF dike within the 1700 ft reach that was not repaired by the FY16 contract (\$1,061,000) and sediment sampling to determine disposal alternatives (\$1,694,000). Also, environmental studies and monitoring for dredging purposes (\$300,000).	Funds will be used for maintenance dredging, repair of north and south breakwaters, repair of confined disposal facility #4 dike and confined disposal facility five year external assessment
NY	NAD	NHD	BUTTERMILK CHANNEL, NY	\$400,000		\$400,000		Funds are being used for commonly performed O&M work.	
NY	LRD	NHD	DUNKIRK HARBOR, NY	\$0	\$10,000	\$10,000	2		Funds will be used for federal standard determination
NY	NAD	NHD	EAST RIVER, NY	\$10,000		\$10,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	EAST ROCKAWAY INLET, NY	\$0	\$7,000,000	\$7,000,000	5		Funds will be used for maintenance dredging
NY	NAD	ENS, FDRR, REC	EAST SIDNEY LAKE, NY	\$766,000		\$766,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	EASTCHESTER CREEK, NY	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	FIRE ISLAND INLET TO JONES INLET, NY	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHD	FLUSHING BAY AND CREEK, NY	\$30,000		\$30,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	GLEN COVE CREEK, NY	\$15,000		\$15,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	GREAT KILLS HARBOR, NY	\$20,000		\$20,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	GREAT SOUTH BAY, NY	\$25,000		\$25,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHD	HUDSON RIVER CHANNEL, NY	\$100,000		\$100,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

NY	NAD	NHD	HUDSON RIVER, NY (MAINT)	\$9,650,000		\$9,650,000		Project Condition Surveys on the high commercial use Hudson River Federal Navigation channel to report channel conditions to the USCG, NOAA, Pilots Assn. and waterway users. Removal of large obstructions from high use deep draft channel between Albany, N.Y and Hudson, N.Y. (approximately 30 miles) and shallow draft (14 feet deep) channel from Albany, N.Y. to Waterford, N.Y. (approximately 10 miles). Maintenance dredging of various reaches of the high use deep draft project channel, including E&D and Supervision & Administration (S&A) costs. Sediment sampling and testing required to prepare environmental assessment and obtain required environmental clearances for proposed FY20/21 maintenance dredging contract.	
NY	NAD	NHS	HUDSON RIVER, NY (O & C)	\$2,705,000		\$2,705,000		Funds are being used for commonly performed O&M work.	
NY	LRD	FDRR	INSPECTION OF COMPLETED WORKS, NY	\$1,391,000		\$1,391,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
NY	NAD	NHD	JAMAICA BAY, NY	\$0	\$6,950,000	\$6,950,000	2		Funds will be used for maintenance dredging
NY	NAD	NHS	JONES INLET, NY	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	LONG ISLAND INTRACOASTAL WATERWAY, NY	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	MATTITUCK HARBOR, NY	\$15,000		\$15,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHS	MORICHES INLET, NY	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NY	LRD	ENS, FDRR, REC	MOUNT MORRIS DAM, NY	\$3,785,000	\$11,000	\$3,796,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including engineering and design activities for the Dam Access elevator repair (\$150,000), the North Side Adit Tunnel (\$85,000), and cleaning the interior drains (\$110,000), and evaluating alternatives for two unused penstocks to prevent further settlement and movement problems (\$115,000).	Funds will be used for operations for recreation
NY	NAD	NHD	NEW YORK AND NEW JERSEY CHANNELS, NY	\$9,000,000		\$9,000,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including award of a maintenance dredging contract in the amount of \$8,450,000.	
NY	NAD	NHD	NEW YORK AND NEW JERSEY HARBOR, NY & NJ	\$16,000,000	\$5,500,000	\$21,500,000	3	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging contract for Newark Bay (\$12,750,000) and Port Jersey (\$1,900,000) reaches.	Donor and Energy Transfer Port
NY	NAD	NHD	NEW YORK HARBOR, NY	\$8,548,000		\$8,548,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging contract for Sandy Hook Channel (\$5,000,000) and Historic Area Remediation Site (HARS) - an EPA designated ocean disposal /remediation site located in Atlantic Ocean, approx. 3.5 miles east of Highlands, NJ.	
NY	NAD	NHD	NEW YORK HARBOR, NY & NJ (DRIFT REMOVAL)	\$10,374,000		\$10,374,000		Funds are being used for commonly performed O&M work.	
NY	NAD	NHD	NEW YORK HARBOR, NY (PREVENTION OF OBSTRUCTIVE DEPOSITS)	\$1,417,000		\$1,417,000		Funds are being used for commonly performed O&M work.	
NY	LRD	NHD	OGDENSBURG HARBOR, NY	\$0	\$125,000	\$125,000	2		Funds will be used for sediment sampling and analysis
NY	LRD	NHD	OSWEGO HARBOR, NY	\$0	\$5,950,000	\$5,950,000	2		Funds will be used for maintenance dredging, sediment sampling and analysis and repair of West Arrowhead breakwater
NY	NAD	NHS	PORTCHESTER HARBOR, NY	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

NY	NAD	NOTH	PROJECT CONDITION SURVEYS, NY	\$2,522,000		\$2,522,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
NY	LRD	NHD	ROCHESTER HARBOR, NY	\$1,200,000	\$4,750,000	\$5,950,000	2	Funds are being used for specific work activities including maintenance dredging, to address only the most critical areas and only allow for one-way traffic to the most heavily used docks (\$1,200,000).	Funds will be used for repair east pier
NY	NAD	NHS	SHINNECOCK INLET, NY	\$50,000		\$50,000		Funds are being used for commonly performed O&M work.	
NY	NAD	FDRR	SOUTHERN NEW YORK FLOOD CONTROL PROJECTS, NY	\$854,000		\$854,000		Funds are being used for commonly performed O&M work.	
NY	LRD	NHS	STURGEON POINT HARBOR, NY	\$0	\$20,000	\$20,000	5		Funds will be used for annual sand by-pass
NY	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, NY	\$610,000		\$610,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
NY	NAD	NHS	WESTCHESTER CREEK, NY	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
NY	NAD	ENS, FDRR, REC	WHITNEY POINT LAKE, NY	\$1,386,000		\$1,386,000		Funds are being used for commonly performed O&M work.	
OH	LRD	ENS, FDRR, REC, WTR	ALUM CREEK LAKE, OH	\$2,236,000		\$2,236,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including cleaning relief wells (\$262,000).	
OH	LRD	NHD	ASHTABULA HARBOR, OH	\$2,359,000		\$2,359,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$1,300,000) and repairing 200 lineal feet of breakwater (\$1,051,000).	
OH	LRD	ENS, FDRR, REC, WTR	BERLIN LAKE, OH	\$3,099,000	\$450,000	\$3,549,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including security measures (\$383,000) and cultural resources site monitoring and protection (\$20,000).	Funds will be used for updating of Berlin Lake Water Control Manual
OH	LRD	ENS, FDRR, REC, WTR	CAESAR CREEK LAKE, OH	\$2,145,000	\$255,000	\$2,400,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including modeling work to update the inflow design flood (\$100,000) and stilling basin repairs and slush grouting (\$235,000).	Funds will be used for operations for recreation, master plan compliance
OH	LRD	ENS, FDRR, REC	CLARENCE J BROWN DAM, OH	\$1,268,000	\$250,000	\$1,518,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including a facility security assessment (\$21,000).	Funds will be used for master plan compliance
OH	LRD	NHD	CLEVELAND HARBOR, OH	\$7,139,000	\$1,300,000	\$8,439,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$4,600,000), confined disposal facility activities (\$250,000), repairs to approximately 500 linear feet of the severely deteriorated West Breakwater (\$1,090,000), environmental compliance activities (\$5,000), and Environmental studies and monitoring for dredging purposes (\$350,000).	Funds will be used for maintenance dredging and engineering and design for east breakwater west end
OH	LRD	NHD	CONNEAUT HARBOR, OH	\$1,130,000		\$1,130,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging to remove approximately 150,000 CY of sediment (\$1,125,000).	
OH	LRD	ENS, FDRR, REC	DEER CREEK LAKE, OH	\$1,664,000		\$1,664,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an instrumentation survey (\$22,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

OH	LRD	ENS, FDRR, REC	DELAWARE LAKE, OH	\$2,393,000		\$2,393,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairs to Waldo Levee pump station culverts (\$113,000), repairs or replacement of concrete gutters (\$20,000), repairs and painting to the dam intake sluice gates (\$105,000) and tainter gate machinery (\$105,000), installing uplift cells in the gallery (\$400,000), updating the Interim Risk Reduction Measures Plan (\$6,000), stockpiling emergency materials (\$10,000), and installing security measures at the project (\$10,000).	
OH	LRD	ENS, FDRR, REC	DILLON LAKE, OH	\$1,495,000		\$1,495,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$108,000).	
OH	LRD	NHD	FAIRPORT HARBOR, OH	\$1,158,000		\$1,158,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging of approximately 150,000 CY of sediment (\$1,150,000).	
OH	LRD	NHD	HURON HARBOR, OH	\$0	\$245,000	\$245,000	2		Funds will be used for preparation of dredged material management plan, confined disposal facility five year external assessment, environmental studies and monitoring for dredging purposes
OH	LRD	FDRR	INSPECTION OF COMPLETED WORKS, OH	\$737,000		\$737,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
OH	LRD	NHD	LORAIN HARBOR, OH	\$0	\$2,934,000	\$2,934,000	2		Funds will be used for maintenance dredging and confined disposal facility five year external assessment
OH	LRD	FDRR	MASSILLON LOCAL PROTECTION PROJECT, OH	\$101,000		\$101,000		Funds are being used for commonly performed O&M work.	
OH	LRD	ENS, FDRR, REC	MICHAEL J KIRWAN DAM AND RESERVOIR, OH	\$1,467,000	\$300,000	\$1,767,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing the electric service to the control tower (\$71,000).	Funds will be used for updating of water control manual
OH	LRD	ENS, FDRR, REC, WTR	MOSQUITO CREEK LAKE, OH	\$1,857,000	\$300,000	\$2,157,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including sealing the stilling basin training wall joints (\$150,000), shoreline management (\$30,000), pest and invasive species management (\$35,000), and special statue species management (\$15,000).	Funds will be used for updating of water control manual
OH	LRD	ENS, FDRR, REC	MUSKINGUM RIVER LAKES, OH	\$17,127,000		\$17,127,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$508,000); replacing the Atwood service bridge (\$1,085,000); repairing the service bridge at Piedmont Lake (\$1,336,000); augmenting the seepage blanket (\$1,035,000); and repairing cracks in the concrete wingwalls of the downstream outlet channel at Wills Creek Lake (\$550,000).	
OH	LRD	ENS, FDRR, REC	NORTH BRANCH KOKOSING RIVER LAKE, OH	\$556,000	\$7,000	\$563,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations for recreation
OH	LRD	FDRR	OHIO-MISSISSIPPI FLOOD CONTROL, OH	\$1,699,000		\$1,699,000		Funds are being used for commonly performed O&M work.	
OH	LRD	ENS, FDRR, REC, WTR	PAINT CREEK LAKE, OH	\$1,523,000	\$73,000	\$1,596,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including instrumentation survey (\$26,000), automation of the piezometers (\$178,000), and inspecting the Greenfield Levee pipes via video (\$40,000).	Funds will be used for maintenance for recreation
OH	LRD	NOTH	PROJECT CONDITION SURVEYS, OH	\$306,000		\$306,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
OH	LRD	FDRR	ROSEVILLE LOCAL PROTECTION PROJECT, OH	\$37,000		\$37,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

OH	LRD	NHD	SANDUSKY HARBOR, OH	\$1,313,000		\$1,313,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$1,300,000).	
OH	LRD	FDR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OH	\$255,000		\$255,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
OH	LRD	NHD	TOLEDO HARBOR, OH	\$4,427,000	\$250,000	\$4,677,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging of the Maumee River and Bay (\$3,775,000) and environmental compliance activities (\$5,000).	Funds will be used for preparation of dredged material management plan
OH	LRD	ENS, FDRR, REC, WTR	TOM JENKINS DAM, OH	\$825,000	\$49,000	\$874,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including boundary inspections and maintenance (\$5,000).	Funds will be used for operations and maintenance for recreation
OH	LRD	ENS, FDRR, REC	WEST FORK OF MILL CREEK LAKE, OH	\$2,412,000	\$265,000	\$2,677,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including a security assessment (\$20,000), repairing or replacing rock slide mesh (\$1,514,000), and evaluating the reduction in spillway flow capacity (\$51,000).	Funds will be used for operations for recreation, master plan compliance
OH	LRD	ENS, FDRR, REC, WTR	WILLIAM H HARSHA LAKE, OH	\$2,665,000		\$2,665,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairing the stilling basin (\$376,000), replacing the waste water treatment plant (\$540,000), and additional security measures at the project (\$399,000).	
OK	SWD	ENS, FDRR, REC, WTR	ARCADIA LAKE, OK	\$615,000	\$8,000	\$623,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operation and management activities for recreation
OK	SWD	ENS, FDRR, REC	BIRCH LAKE, OK	\$778,000		\$778,000		Funds are being used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	BROKEN BOW LAKE, OK	\$2,074,000		\$2,074,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$96,000 for project features jointly used by multiple business lines: FRM 68.8%, REC 22.8%, HYD 7.7%, and EN 1%.	
OK	SWD	ENS, FDRR, REC, WTR	CANTON LAKE, OK	\$2,119,000		\$2,119,000		Funds are being used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	COPAN LAKE, OK	\$1,171,000		\$1,171,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including the purchase of a new wench truck for the project (\$80,000).	
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	EUFAULA LAKE, OK	\$6,828,000		\$6,828,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$96,000 for project features jointly used by multiple business lines: FRM 67%, N 18%, HYD 14%, and EN 1%.	
OK	SWD	ENS, FDRR, HYD, JOINT, REC	FORT GIBSON LAKE, OK	\$4,998,000		\$4,998,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$54,000 for project features jointly used by multiple business lines: FRM 52% and HYD 48%.	
OK	SWD	ENS, FDRR, REC	FORT SUPPLY LAKE, OK	\$917,000		\$917,000		Funds are being used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC	GREAT SALT PLAINS LAKE, OK	\$298,000		\$298,000		Funds are being used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	HEYBURN LAKE, OK	\$861,000	\$1,750,000	\$2,611,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for performance of embankment repairs & riprap addition
OK	SWD	ENS, FDRR, REC, WTR	HUGO LAKE, OK	\$2,524,000		\$2,524,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of the project office roof (\$750,000).	
OK	SWD	ENS, FDRR, REC, WTR	HULAH LAKE, OK	\$735,000	\$23,000	\$758,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

OK	SWD	FDRR	INSPECTION OF COMPLETED WORKS, OK	\$650,000		\$650,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
OK	SWD	ENS, FDRR, REC, WTR	KAW LAKE, OK	\$2,215,000	\$500,000	\$2,715,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for engineering and design for repair of crack in Spillway Pier #1
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	KEYSTONE LAKE, OK	\$4,539,000		\$4,539,000		Funds are being used for commonly performed O&M work. As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$689,000 shared between business lines as follows: FRM 62%, NAV 26%, HYD 11%, and EN 1%.	
OK	SWD	ENS, HYD, JOINT, NIH, REC	MCCLLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK	\$20,810,000	\$898,000	\$26,810,000	1	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including critical repairs to tainter gates (\$300,000).	Funds will be used for rehabilitation of tainter gates at Webber Falls Lock and Dam 16
OK	SWD	NIH	MCCLLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK		\$3,409,000		4		Funds will be used for rehabilitation of tainter gates at Webber Falls Lock and Dam 16
OK	SWD	JOINT	MCCLLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM, OK		\$1,693,000		6		Funds will be used for rehabilitation of tainter gates at Webber Falls Lock and Dam 16
OK	SWD	ENS, FDRR, REC, WTR	OLOGAH LAKE, OK	\$2,320,000	\$627,000	\$2,947,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance for recreation, shoreline protection, mitigation site protection
OK	SWD	FDRR	OPTIMA LAKE, OK	\$63,000		\$63,000		Funds are being used for commonly performed O&M work.	
OK	SWD	FDRR	PENSACOLA RESERVOIR, LAKE OF THE CHEROKEES, OK	\$164,000		\$164,000		Funds are being used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	PINE CREEK LAKE, OK	\$1,671,000		\$1,671,000		Funds are being used for commonly performed O&M work.	
OK	SWD	ENS, FDRR, REC, WTR	SARDIS LAKE, OK	\$1,285,000		\$1,285,000		Funds are being used for commonly performed O&M work.	
OK	SWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, OK	\$1,360,000		\$1,360,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
OK	SWD	ENS, FDRR, REC, WTR	SKIATOOK LAKE, OK	\$1,697,000	\$43,000	\$1,740,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance for recreation
OK	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	TENKILLER FERRY LAKE, OK	\$4,318,000		\$4,318,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$314,000 for project features jointly used by multiple business lines: FRM 65% and HYD 35%.	
OK	SWD	ENS, FDRR, REC, WTR	WAURIKA LAKE, OK	\$1,859,000		\$1,859,000		Funds are being used for commonly performed O&M work. Funds will also be used be used for specific work activities including the preparation of a spillway bridge load rating and crane placement plan (\$100,000), and replacing the potable water line in Kiowa Park I (\$200,000).	
OK	SWD	ENS, FDRR, REC, WTR	WISTER LAKE, OK	\$758,000	\$31,000	\$789,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation
OR	NWD	ENS, FDRR	APPLEGATE LAKE, OR	\$1,042,000		\$1,042,000		Funds are being used for commonly performed O&M work.	
OR	NWD	ENS, FDRR, REC, WTR	BLUE RIVER LAKE, OR	\$1,014,000		\$1,014,000		Funds are being used for commonly performed O&M work.	
OR	NWD	ENS, JOINT, NHD, REC	BONNEVILLE LOCK AND DAM, OR & WA	\$8,000,000	\$925,000	\$8,925,000	2	Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$4,391,462 for project features jointly used by multiple business lines: NAV 100.0%. Jointly funded specific work activities includes Spillway Crane Replacement DDR, \$500,000, and Bradford Island remediation of contaminated sites, \$325,000	Funds will be used for preparation of design requirements for Old Navlock bridge, preparation of plans and specifications for remediation of contaminated sites
OR	NWD	NHS	CHETCO RIVER, OR	\$785,000	\$45,000	\$830,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for studies and surveys for navigation and maintenance dredging
OR	NWD	NHD	COLUMBIA RIVER AT THE MOUTH, OR & WA	\$23,535,000	\$960,000	\$24,495,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for repair south jetty dune, prepare plans and specifications for repair of Sand Island pile dike system
OR	NWD	NHD	COOS BAY, OR	\$6,958,000	\$9,727,000	\$16,685,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
OR	NWD	NHS	COQUILLE RIVER, OR	\$26,000	\$411,000	\$437,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

OR	NWD	ENS, FDRR, REC, WTR	COTTAGE GROVE LAKE, OR	\$1,261,000		\$1,261,000		Funds are being used for commonly performed O&M work.	
OR	NWD	ENS, JOINT, REC, WTR	COUGAR LAKE, OR	\$2,360,000	\$7,000	\$2,367,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations for recreation
OR	NWD	NHS	DEPOE BAY, OR	\$10,000	\$868,000	\$878,000	5	Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$2,269,000 for project features jointly used by multiple business lines: NAV - 1.2%, FRM - 91.3%, and WS - 7.5%.	Funds will be used for studies and surveys for navigation, maintenance dredging and maintenance dredging pipeline contract
OR	NWD	ENS, JOINT, REC, WTR	DETROIT LAKE, OR	\$5,894,000		\$5,894,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$5,787,000 for project features jointly used by multiple business lines: NAV - 1.0%, FRM - 82.8%, and WS - 16.2%. Funds will also be used for specific work activities including repair of structural deformities on spillway gate #5 and electrical/mechanical reliability repairs for spillway gates #4 and #3 (\$4,611,000).	
OR	NWD	ENS, FDRR, REC, WTR	DORENA LAKE, OR	\$1,281,000		\$1,281,000		Funds are being used for commonly performed O&M work.	
OR	NWD	ENS, FDRR	ELK CREEK LAKE, OR	\$174,000		\$174,000		Funds are being used for commonly performed O&M work.	
OR	NWD	ENS, FDRR, REC, WTR	FALL CREEK LAKE, OR	\$1,475,000	\$7,000	\$1,482,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation
OR	NWD	ENS, FDRR, REC, WTR	FERN RIDGE LAKE, OR	\$2,013,000	\$14,000	\$2,027,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance for recreation
OR	NWD	ENS, JOINT, REC, WTR	GREEN PETER - FOSTER LAKES, OR	\$2,147,000	\$13,000	\$2,160,000	6	Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,743,000 for project features jointly used by multiple business lines: NAV - 0.9%, FRM - 87.4%, and WS - 11.7%.	Funds will be used for maintenance for recreation
OR	NWD	ENS, JOINT, REC, WTR	HILLS CREEK LAKE, OR	\$1,483,000		\$1,483,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,352,000 for project features jointly used by multiple business lines: NAV - 1.9%, FRM - 83.5%, and WS - 14.6%.	
OR	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, OR	\$60,000		\$60,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
OR	NWD	FDRR	INSPECTION OF COMPLETED WORKS, OR	\$628,000		\$628,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
OR	NWD	ENS, JOINT, NIH, REC	JOHN DAY LOCK AND DAM, OR & WA	\$5,688,000		\$5,688,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$3,247,000 for project features jointly used by multiple business lines: NAV - 76.2% and FRM - 23.8%.	
OR	NWD	ENS, JOINT, REC, WTR	LOOKOUT POINT LAKE, OR	\$2,052,000		\$2,052,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,704,000 for project features jointly used by multiple business lines: NAV - 1.6%, FRM - 95.3%, and WS - 3.1%.	
OR	NWD	ENS, JOINT, REC, WTR	LOST CREEK LAKE, OR	\$3,621,000		\$3,621,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$2,975,000 for project features jointly used by multiple business lines: FRM - 45.8%, ENS - 22.9%, REC - 24.6%, and WS - 6.7%.	
OR	NWD	ENS, JOINT, NIH, REC	MCNARY LOCK AND DAM, OR & WA	\$9,623,000		\$9,623,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$4,759,000 for project features jointly used by multiple business lines: NAV - 100%. Funds will also be used for specific work activities including installation of the three fish pumps that supply attraction water to adult fish ladder (\$927,000), security assessment (\$13,000), updating the project EIS (\$5,000) and a Major Maintenance report for the Washington and Oregon fish ladder (\$500,000).	
OR	NWD	NHS	NEHALEM BAY, OR	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	
OR	NWD	NHD	PORT ORFORD, OR	\$5,000		\$5,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

OR	NWD	NOTH	PROJECT CONDITION SURVEYS, OR	\$400,000	\$150,000	\$550,000	2	Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe	Funds will be used for surveys for navigation
OR	NWD	NHS	ROGUE RIVER AT GOLD BEACH, OR	\$5,000	\$963,000	\$968,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for studies and surveys for navigation and maintenance dredging
OR	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, OR	\$99,000		\$99,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
OR	NWD	NHD	SIUSLAW RIVER, OR	\$10,000	\$1,098,000	\$1,108,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging, studies and surveys for navigation, environmental studies and monitoring for dredging purposes
OR	NWD	NHD	SKIPANON CHANNEL, OR	\$5,000	\$1,308,000	\$1,313,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
OR	NWD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, OR	\$10,265,000		\$10,265,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
OR	NWD	NHD	TILLAMOOK BAY & BAR, OR	\$5,000	\$1,658,000	\$1,663,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging, studies and surveys for navigation, determination of design requirements, preparation of value engineering studies and preparation of plans and specifications for repair of north and south jetty repairs
OR	NWD	NHD	UMPQUA RIVER, OR	\$939,000	\$954,000	\$1,893,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
OR	NWD	NIL	WILLAMETTE RIVER AT WILLAMETTE FALLS, OR	\$161,000	\$500,000	\$661,000	5	Funds are being used for specific work activities including dam safety activities (\$161,000).	Funds will be used for plans and specs for disposition recommendation measures
OR	NWD	FDRR	WILLAMETTE RIVER BANK PROTECTION, OR	\$170,000		\$170,000		Funds are being used for specific work activities including identification of potential restoration sites associated with existing Corps revetments in the Willamette Basin; performance of site inspections; and maintenance of the inventory and inspection database (\$170,000)	
OR	NWD	ENS, FDRR	WILLOW CREEK LAKE, OR	\$748,000		\$748,000		Funds are being used for commonly performed O&M work.	
OR	NWD	NHD	YAQUINA BAY AND HARBOR, OR	\$3,080,000	\$975,000	\$4,055,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
PA	LRD	NIL	ALLEGHENY RIVER, PA	\$7,863,000	\$1,600,000	\$9,463,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including navigation safety sign installation at L&D 2 (\$225,000), CW Bill Young L&D (\$225,000), L&D 6 (\$155,000) and L&D 7 (\$155,000); dam safety inspections (\$219,000); and dredging activities (\$316,000).	Funds will be used for Funds will be used for award a contract to repair concrete vertical land wall at Lock and Dam 2 on the Allegheny River
PA	NAD	ENS, FDRR, REC	ALVIN R BUSH DAM, PA	\$874,000		\$874,000		Funds are being used for commonly performed O&M work.	
PA	NAD	ENS, FDRR, REC	AYLESWORTH CREEK LAKE, PA	\$416,000		\$416,000		Funds are being used for commonly performed O&M work.	
PA	NAD	ENS, FDRR	BELTZVILLE LAKE, PA	\$1,641,000		\$1,641,000		Funds are being used for commonly performed O&M activities. Funds will also be used for specific work activities including contract to locate and improve boundary monumentation (\$100,000), pest and invasive species maintenance (\$20,000), and to provide safe demolition of barn building and remove debris from the property (\$200,000)	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

PA	NAD	ENS, FDRR, REC	BLUE MARSH LAKE, PA	\$3,683,000		\$3,683,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including awarding a contract to replace aging equipment with updated variable frequency drives at the Bernville Pump Station (\$165,000), repair deteriorated bulkheads and stop logs as needed with water control gates (\$260,000), and purchasing a tracked skid-steer loader with a forestry cutter, dozer blade and grapple bucket (\$105,000).	
PA	LRD	ENS, FDRR, REC	CONEMAUGH RIVER LAKE, PA	\$1,704,000	\$43,000	\$1,747,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including safety repairs to the road and parking areas (\$270,000) and security measures at the project (\$142,000), and pest and invasive species management (\$20,000).	Funds will be used for operations for recreation
PA	NAD	ENS, FDRR, REC, WTR	COWANESQUE LAKE, PA	\$2,664,000	\$227,000	\$2,891,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation
PA	LRD	ENS, FDRR, REC	CROOKED CREEK LAKE, PA	\$2,955,000	\$716,000	\$3,671,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including initiating replacement of the gate operating machinery (\$933,000) and security measures at the project (\$23,000), update to the Master Plan (\$100,000), management of cultural resources (\$20,000), and management of special status species (\$15,000).	Funds will be used for replace gate operating machinery
PA	NAD	ENS, FDRR, REC, WTR	CURWENSVILLE LAKE, PA	\$1,060,000		\$1,060,000		Funds are being used for commonly performed O&M work.	
PA	NAD	NHD	DELAWARE RIVER, PHILADELPHIA, PA TO TRENTON, NJ	\$3,850,000		\$3,850,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging of the 40-foot channel utilizing the Government dredge McFarland for 30 training days (\$3,200,000).	
PA	LRD	ENS, FDRR, REC	EAST BRANCH CLARION RIVER LAKE, PA	\$5,892,000		\$5,892,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing the gate operating machinery for three gates (\$4,605,000).	
PA	LRD	NHD	ERIE HARBOR, PA	\$0	\$299,000	\$299,000	2		Funds will be used for preparation of dredged material management plan and performance of environmental studies and monitoring for dredging purposes
PA	NAD	ENS, FDRR, REC	FOSTER JOSEPH SAYERS DAM, PA	\$2,165,000		\$2,165,000		Funds are being used for commonly performed O&M work.	
PA	NAD	ENS, FDRR	FRANCIS E WALTER DAM, PA	\$2,720,000		\$2,720,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including contract to locate and improve boundary monumentation (\$40,000), pest and invasive species maintenance (\$20,000), and repair critically degraded entrance roads (\$1,745,000).	
PA	NAD	FDRR	GENERAL EDGAR JADWIN DAM AND RESERVOIR, PA	\$338,000		\$338,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including pest and invasive species maintenance (\$15,000).	
PA	NAD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, PA	\$60,000		\$60,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
PA	LRD	FDRR	INSPECTION OF COMPLETED WORKS, PA	\$1,110,000		\$1,110,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
PA	LRD	FDRR	JOHNSTOWN, PA	\$1,581,000		\$1,581,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including sedimentation and maintenance on the Little Conemaugh River (\$500,000), inspection activities (\$156,000), and risk management coordination (\$4,000).	
PA	LRD	ENS, FDRR, REC	KINZUA DAM AND ALLEGHENY RESERVOIR, PA	\$1,551,000	\$30,000	\$1,581,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety inspection activities (\$6,000) and replacement of 4-way hydraulic valves and modification of piping (\$50,000).	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

PA	LRD	ENS, FDRR, REC	LOYALHANNA LAKE, PA	\$1,530,000	\$92,000	\$1,622,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations for recreation
PA	LRD	ENS, FDRR, REC	MAHONING CREEK LAKE, PA	\$1,457,000	\$31,000	\$1,488,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including final engineering and design for replacement of the Service Bridge and pier rehabilitation (\$220,000).	Funds will be used for operations for recreation
PA	LRD	NIL	MONONGAHELA RIVER, PA	\$15,183,000	\$950,000	\$16,133,000	5	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety inspection activities (\$98,000).	Funds will be used for replace valve interlock and four-way hydraulic valves at Braddock Locks and Dam
PA	LRD	NIH	OHIO RIVER LOCKS AND DAMS, PA, OH & WV	\$45,472,000	\$6,638,000	\$52,110,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$494,000); installing lower bulkhead slots in the primary lock chamber (\$4,821,000), installing lift gates (\$6,769,000), stabilizing the monolith crack (\$4,880,000), and replacing the dam gate programmable logic controllers (\$1,854,000) at Montgomery L&D; repairing lock gate machinery at Pike Island L&D (\$2,460,000); and extending the handrails at Hannibal L&D (\$475,000).	Funds will be used for replacement of new Cumberland auxiliary upstream miter gates, emsworth final design for crack stabilization of land wall, pike island installation of 4-corner hydraulic system main chamber design
PA	LRD	NIH	OHIO RIVER OPEN CHANNEL WORK, PA, OH & WV	\$1,765,000		\$1,765,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging to maintain the navigation channel.	
PA	NAD	NOTH	PROJECT CONDITION SURVEYS, PA	\$170,000		\$170,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
PA	NAD	ENS, FDRR	PROMPTON LAKE, PA	\$851,000		\$851,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including to repair moderate leaking on the intake structure as identified on the Dam Safety Action list (\$300,000).	
PA	LRD	FDRR	PUNXSUTAWNEY, PA	\$719,000		\$719,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairing the concrete channel (\$552,000).	
PA	NAD	ENS, FDRR, REC	RAYSTOWN LAKE, PA	\$5,281,000	\$1,000,000	\$6,281,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for construction of a water treatment plant
PA	NAD	FDRR	SCHEDULING RESERVOIR OPERATIONS, PA	\$76,000		\$76,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
PA	NAD	NHD	SCHUYLKILL RIVER, PA	\$100,000		\$100,000		Funds are being used for commonly performed O&M work.	
PA	LRD	ENS, FDRR, REC	SHENANGO RIVER LAKE, PA	\$3,081,000		\$3,081,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including constructing safe access to the stilling basin (\$150,000), repairing erosion at the right bank gutter (\$202,000), security measures (\$37,000), and management of special status species (\$15,000).	
PA	NAD	ENS, FDRR, REC	STILLWATER LAKE, PA	\$872,000		\$872,000		Funds are being used for commonly performed O&M work.	
PA	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, PA	\$105,000		\$105,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	
PA	NAD	ENS, FDRR, REC	TIOGA - HAMMOND LAKES, PA	\$3,480,000		\$3,480,000		Funds are being used for commonly performed O&M work.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

PA	LRD	ENS, FDRR, REC	TIONESTA LAKE, PA	\$2,699,000		\$2,699,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$161,000), installing a larger equalization door on the bulkhead to allow pressure to equalize (\$100,000), and engineering and design to replace gate operating machinery (\$144,000).	
PA	LRD	ENS, FDRR, REC	UNION CITY LAKE, PA	\$612,000	\$15,000	\$627,000	6 Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including security upgrades (\$22,000).	Funds will be used for operations and maintenance for recreation
PA	LRD	ENS, FDRR, REC	WOODCOCK CREEK LAKE, PA	\$1,157,000	\$91,000	\$1,248,000	6 Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing rubber seals on the bulkheads and emergency wheel gate (\$50,000), security upgrades (\$22,000), installing lighting as a cost savings measure (\$6,000), and pest and invasive species management (\$20,000).	Funds will be used for operations for recreation
PA	NAD	ENS, FDRR, REC	YORK INDIAN ROCK DAM, PA	\$1,396,000		\$1,396,000	Funds are being used for commonly performed O&M work.	
PA	LRD	ENS, FDRR, REC, WTR	YOUGHIOGHEN RIVER LAKE, PA & MD	\$2,828,000	\$10,000	\$2,838,000	6 Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$9,000), cultural resources site monitoring and protection (\$20,000), management of special status species (\$15,000), and shoreline management (\$65,000).	Funds will be used for maintenance for recreation
PR	SAD	FOTH	INSPECTION OF COMPLETED WORKS, PR	\$134,000		\$134,000	Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
PR	SAD	NOTH	PROJECT CONDITION SURVEYS, PR	\$100,000		\$100,000	Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
PR	SAD	NHD	SAN JUAN HARBOR, PR	\$630,000		\$630,000	Funds are being used for commonly performed O&M work.	
RI	NAD	NHD	BLOCK ISLAND HARBOR OF REFUGE, RI	\$2,550,000		\$2,550,000	Funds are being used for specific work activities including maintenance dredging of the Entrance Channel with the CURRITUCK (\$350,000) and maintenance dredging of the Harbor of Refuge Anchorage (\$2,200,000).	
RI	NAD	FDRR	FOX POINT BARRIER, NARRAGANSETT BAY, RI	\$2,335,000		\$2,335,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including arc flash assessment (\$60,000), inspect pumps (\$80,000), mitigate effects of concrete expansion (\$1,650,000), and replace heating system (\$80,000).	
RI	NAD	NHD	GREAT SALT POND, BLOCK ISLAND, RI	\$350,000		\$350,000	Funds are being used for specific work activities including maintenance dredging of the entrance channel using the Government owned dredge the CURRITUCK (\$350,000).	
RI	NAD	FDRR	INSPECTION OF COMPLETED WORKS, RI	\$134,000		\$134,000	Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

RI	NAD	NOTH	PROJECT CONDITION SURVEYS, RI	\$300,000		\$300,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
RI	NAD	FDRR	WOONSOCKET, RI	\$1,424,000		\$1,424,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of roofs (\$45,000), tainter gate lubrication (\$110,000), replacement of generator (\$150,000), and repairs to the project toe drains (\$619,000).	
SC	SAD	NIL	ATLANTIC INTRACOASTAL WATERWAY, SC	\$3,487,000	\$3,461,000	\$6,948,000	5	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including placement area maintenance (\$3,272,000).	Funds will be used for maintenance dredging activities.
SC	SAD	NHD	CHARLESTON HARBOR, SC	\$20,564,000		\$20,564,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging (\$19,302,000) and placement area maintenance (\$140,000).	
SC	SAD	NHD	COOPER RIVER, CHARLESTON HARBOR, SC	\$3,867,000	\$1,360,000	\$5,227,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for prepare design of fish lift gate 1 replacement and motor control center replacement and repair of generator rewedged and brakes and turbine cavitation for unit 1
SC	SAD	NHD	GEORGETOWN HARBOR, SC	\$0	\$25,000	\$25,000	2		Funds will be used for operation for navigation
SC	SAD	FDRR	INSPECTION OF COMPLETED WORKS, SC	\$75,000		\$75,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
SC	SAD	NOTH	PROJECT CONDITION SURVEYS, SC	\$875,000		\$875,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
SD	NWD	ENS, HYD, JOINT, REC, WTR	BIG BEND DAM, LAKE SHARPE, SD	\$9,900,000		\$9,900,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of powerhouse high bay lighting (\$97,000). The budgeted amount for the project includes \$3,566,000 for project features jointly used by multiple business lines: HYD - 100.0%. Funds will also be used for specific work (joint) activities including: replacing light fixtures along the crest road (\$117,000), and to install new perimeter LED security fence lighting and associated new wiring and poles (\$70,000).	
SD	NWD	ENS, FDRR, REC	COLD BROOK LAKE, SD	\$345,000		\$345,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety surveys (\$50,000).	
SD	NWD	ENS, FDRR, REC	COTTONWOOD SPRINGS LAKE, SD	\$260,000	\$4,000	\$264,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dam safety surveys (\$50,000).	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

SD	NWD	ENS, HYD, JOINT, REC, WTR	FORT RANDALL DAM, LAKE FRANCIS CASE, SD	\$12,178,000	\$93,000	\$12,271,000	6 Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including North American Energy Reliability Corporation compliance monitoring and enforcement (\$35,000), a dam safety periodic inspection and assessment report (\$37,000) and bank stabilization to protect a cultural site (\$750,000). The budgeted amount for the project includes \$4,045,000 for O&M of project features jointly used by multiple business lines: HYD - 43.78%, NAV - 23.73%, and FRM - 32.49%. Funds will also be used for specific work (joint) activities including; a periodic cultural resources artifacts inventory, collection review and site inspection (\$20,000), replace stilling basin pumps and motors (\$64,000) and protection and security improvements (\$23,000).	Funds will be used for operations and maintenance for recreation
SD	NWD	FDRR	INSPECTION OF COMPLETED WORKS, SD	\$356,000		\$356,000	Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
SD	MVD	ENS, FDRR, REC	LAKE TRAVERSE, SD & MN	\$827,000		\$827,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including energy efficient building upgrades, repaint the tainter gate and machinery, and design for future repair work (266,000).	
SD	NWD	ENS, HYD, JOINT, REC, WTR	OAHE DAM, LAKE OAHE, SD & ND	\$12,865,000		\$12,865,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including pest and invasive species management (\$425,000) and testing and evaluation of remaining cultural resource sites (\$100,000). The budgeted amount for the project includes \$4,444,000 for project features jointly used by multiple business lines: HYD - 43.78%, NAV - 23.73%, and FRM - 32.49%. Funds will also be used for specific work (joint) activities including security and protection improvements (\$22,000).	
SD	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, SD	\$144,000		\$144,000	Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
TN	LRD	ENS, HYD, JOINT, REC, WTR	CENTER HILL LAKE, TN	\$7,719,000		\$7,719,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including boundary marking (\$63,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$2,768,000 shared between business lines as follows: HYD - 53% and FRM - 47%. Specific Joint work activities include cleaning out the foundation drain holes (\$305,000) and for a monumentation survey (\$104,000).	
TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	CHEATHAM LOCK AND DAM, TN	\$8,384,000		\$8,384,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Forebay debris removal (\$400,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$1,474,000 shared between business lines as follows: NAV - 100%. Specific Joint work activities include cleaning out the foundation drain holes (\$247,000) and inspection activities (\$58,000).	
TN	LRD	NIH	CHICKAMAUGA LOCK, TENNESSEE RIVER, TN	\$3,253,000		\$3,253,000	Funds are being used for specific work activities including post tensioning anchors for monolith block 48 at Chickamauga Lock (\$3,253,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	CORDELL HULL DAM AND RESERVOIR, TN	\$8,571,000		\$8,571,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including renovation of project washhouses and comfort stations as cost savings measures (\$228,000), forebay debris removal (\$300,000), completing the Master Plan update (\$200,000) and boundary surveys (\$80,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$1,840,000 shared between business lines as follows: HYD – 31%, NAV – 9%, and REC – 60%.	
TN	LRD	ENS, HYD, JOINT, REC, WTR	DALE HOLLOW LAKE, TN	\$7,828,000	\$473,000	\$8,301,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including completion of the Master Plan update (\$220,000) and boundary monumentation (\$155,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$1,925,000 shared between business lines as follows: HYD – 57% and FRM – 43%.	Funds will be used to replace dam & intake works power service cable trays
TN	LRD	FDRR	INSPECTION OF COMPLETED WORKS, TN	\$328,000		\$328,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
TN	LRD	ENS, HYD, JOINT, REC, WTR	J PERCY PRIEST DAM AND RESERVOIR, TN	\$5,623,000		\$5,623,000		Funds are being used for commonly performed O&M work. As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$2,347,000 shared between business lines as follows: FRM – 42%, HYD – 7%, and REC – 51%. Funds will also be used for specific work activities including foundation drain hole cleanouts (\$288,000).	
TN	MVD	NHS	NORTHWEST TENNESSEE REGIONAL HARBOR, LAKE COUNTY, TN	\$0	\$15,000	\$15,000	5		Funds will be used for studies and surveys for navigation
TN	LRD	ENS, HYD, JOINT, NIH, REC, WTR	OLD HICKORY LOCK AND DAM, TN	\$11,491,000	\$260,000	\$11,751,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including engineering and design for upgrades to the waste water treatment plant at the Left Bank Recreation Area as cost savings measures (\$184,000), forebay debris removal (\$300,000), and boundary monumentation (\$60,000). As a multiple purpose project with power, the project's budget includes Joint activities, with a total allocation of \$2,413,000 shared between business lines as follows: HYD – 63% and NAV – 37%.	Funds will be used for plans and specifications for switchyard control rehabilitation
TN	LRD	NIH	TENNESSEE RIVER, TN	\$25,952,000	\$1,650,000	\$27,602,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including repairing machinery and the lock wall at Kentucky Lock (\$1,095,000); and installing new culvert valves Pickwick Lock (\$3,631,000).	Funds will be used for maintenance of Kentucky Lock stop log slots, replacement of mooring cells at Tennessee River mile 303.5
TN	MVD	NHS	WOLF RIVER HARBOR, TN	\$920,000		\$920,000		Funds are being used for specific work activities including hydrographic surveys and harbor dredging to authorized channel dimensions (\$920,000).	
TX	SWD	ENS, FDRR, REC, WTR	AQUILLA LAKE, TX	\$1,140,000		\$1,140,000		Funds are being used for commonly performed O&M work. Specific work activities to be funded is the outlet work stand by generator (\$75,000).	
TX	SWD	ENS	ARKANSAS - RED RIVER BASINS CHLORIDE CONTROL - AREA VIII, TX	\$1,799,000		\$1,799,000		Funds are being used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	BARDWELL LAKE, TX	\$2,045,000	\$41,000	\$2,086,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including installation of separate utility meters (\$35,000).	Funds will be used for operations for recreation
TX	SWD	ENS, FDRR, REC, WTR	BELTON LAKE, TX	\$4,752,000		\$4,752,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities such as evaluating the spillway channel (\$94,000), Periodic Inspection (\$142,000), and Hydraulic Steel Structures Inspection (\$22,000). A Sustainability package for the replacement of water lines (\$200,000) will also be funded.	
TX	SWD	ENS, FDRR, REC, WTR	BENBROOK LAKE, TX	\$4,159,000		\$4,159,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities such as repairs to the main service gates (\$800,000) and work on the Master Plan report (\$100,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TX	SWD	NHD	BRAZOS ISLAND HARBOR, TX	\$85,000	\$12,600,000	\$12,685,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging of Brownsville main channel, Brownsville entrance channel, Port Isabel Wves to turning basin
TX	SWD	FDRR	BUFFALO BAYOU AND TRIBUTARIES, TX	\$3,343,000		\$3,343,000		Funds are being used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	CANYON LAKE, TX	\$5,070,000		\$5,070,000		Funds are being used for commonly performed O&M work. Additional Funds are being used for specific work activities such as boundary surveying and recertification (\$150,000).	
TX	SWD	NHS	CHANNEL TO HARLINGEN, TX	\$650,000	\$2,100,000	\$2,750,000	5	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including Dredging of 25.8 mile Main Channel & Turning Basin (hot spot dredging only) (\$525,000); perform project condition surveys of the channel (\$25,000); perform real estate coordination activities (\$5,000); perform supervision and administration of dredging contract (\$50,000); and perform hydrographic surveys (\$25,000).	Funds will be used for maintenance dredging
TX	SWD	NHS	CHANNEL TO PORT BOLIVAR, TX	\$100,000		\$100,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging of 950 feet of channel reach to the authorized project depth (\$90,000); perform supervision and administration of dredging contract (\$5,000); and to perform hydrographic surveys (\$5,000).	
TX	SWD	NHD	CORPUS CHRISTI SHIP CHANNEL, TX	\$5,300,000	\$9,500,000	\$16,037,500	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project condition surveys of the channel (\$150,000); perform real estate coordination activities (\$40,000); prepare plans and specifications for dredging contract (\$150,000); perform maintenance dredging of the Inner Basin to Viola Turning Basin and LaQuinta Channel to project depth (\$4,000,000); perform supervision and administration of dredging contract (\$250,000); and perform hydrographic surveys (\$100,000).	Funds will be used for maintenance dredging of lower bay reach and make placement area # 10 improvements
TX	SWD	NHD	CORPUS CHRISTI SHIP CHANNEL, TX		\$1,237,500		3		Donor and Energy Transfer Port
TX	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	DENISON DAM, LAKE TEXOMA, TX	\$7,980,000		\$7,980,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,088,000 for project features jointly used by multiple business lines: FRM 51% and HYD 49%.	
TX	SWD	NHS	DOUBLE BAYOU, TX	\$0	\$100,000	\$100,000	5		Funds will be used for studies and surveys for navigation - environmental monitoring for dredging purposes
TX	SWD	ENS	ESTELLINE SPRINGS EXPERIMENTAL PROJECT, TX	\$39,000		\$39,000		Funds are being used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	FERRELLS BRIDGE DAM, LAKE O' THE PINES, TX	\$4,159,000	\$503,000	\$4,662,000	6	Funds are being used for commonly performed O&M work. In addition, specific work packages will be funded to repair main service gates (\$900,000); airlift and clean piezometers (\$150,000); analyze and report on the uncontrolled spillway slab for proper operation (\$150,000); provide plans & specifications to repair uncontrolled spillway slab (\$28,000); replace handrail fence on stilling basin wing walls (\$75,000); install personnel retrieval devise for confined space rescue (\$33,000); and conduct inspection of hydraulic steel structures (\$17,000).	Funds will be used for operations for recreation, shoreline management plan revision
TX	SWD	NHD	FREEPORT HARBOR, TX	\$4,700,000	\$5,300,000	\$10,000,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project condition surveys of the channel (\$75,000); perform real estate coordination activities (\$35,000); prepare plans and specifications for maintenance dredging contract (\$150,000); perform maintenance dredging of the Freeport Entrance Channel to project depth (\$3,800,000); perform associated environmental requirements such as sea turtle trawling (\$30,000); perform supervision and administration of dredging contract (\$250,000); and to perform hydrographic surveys (\$70,000).	Funds will be used for maintenance dredging of inside channel and entrance channel

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TX	SWD	NHD	GALVESTON HARBOR AND CHANNEL, TX	\$6,630,000	\$6,370,000	\$13,000,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project condition surveys of the channel (\$125,000); perform real estate coordination activities (\$25,000); prepare plans and specifications for dredging contract (\$125,000); perform maintenance dredging of the Entrance Channel to project depth (\$5,800,000); perform associated environmental requirements such as sea turtle trawling (\$30,000); perform supervision and administration of dredging contract (\$200,000); and to perform hydrographic surveys (\$75,000).	Funds will be used for maintenance dredging of entrance channel and inner harbor
TX	SWD	NHS	GIWW, CHANNEL TO VICTORIA, TX	\$30,000	\$20,000	\$50,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for operation for navigation
TX	SWD	NHS	GIWW, CHOCOLATE BAYOU, TX	\$30,000	\$20,000	\$50,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for operation for navigation
TX	SWD	ENS, FDRR, REC, WTR	GRANGER DAM AND LAKE, TX	\$6,772,000	\$43,000	\$6,815,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work packages including repair of the south sluice gates (\$400,000) and a design/build contract for the lake project office (\$4,000,000). A Sustainability package will install utility meters (\$20,000) and \$865,000 will be used for common O&M for recreation. In addition, a Sustainability package will replace a water line (\$150,000).	Funds will be used for operations for recreation
TX	SWD	ENS, FDRR, REC, WTR	GRAPEVINE LAKE, TX	\$5,185,000	\$170,000	\$5,355,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work packages including repair of the outlet works service bridge (\$500,000), repair of the concrete outlet works tower (\$200,000), and replace the emergency slide gates (\$1,000,000).	Funds will be used for operations for recreation
TX	SWD	NIH	GULF INTRACOASTAL WATERWAY, TX	\$25,500,000	\$5,200,000	\$30,700,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$17,325,000); project condition surveys (\$700,000); prepare plans and specifications (\$635,000); perform hydrographic surveys (\$350,000); perform supervision and administration of maintenance contracts (\$1,025,000); perform contract facility repairs at Colorado River Locks and Brazos River Floodgates (\$700,000); and perform contract maintenance of mooring buoys (\$65,000).	Funds will be used for condition surveys and maintenance dredging of Channel to Palacios, Matagorda Bay to Corpus Christi and Corpus Christi to Port Isabel
TX	SWD	ENS, FDRR, REC	HORDS CREEK LAKE, TX	\$1,619,000	\$275,000	\$1,894,000	6	Funds are being used for commonly performed O&M work. Specific work packages include bridge repair (\$165,000); repair public roadway on top of dam (\$125,000); and repair the drain and riprap (\$83,000).	Funds will be used for operations for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TX	SWD	NHD	HOUSTON SHIP CHANNEL, TX	\$23,300,000	\$10,000,000	\$34,537,500	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project condition surveys of the Houston Ship Channel (\$500,000); real estate coordination activities (\$80,000); prepare plans and specifications for Boggy Bayou to Greens and Greens Bayou dredging contract (\$150,000); perform maintenance dredging of Boggy Bayou to Greens and Greens Bayou to project depth (\$4,600,000); to perform supervision and administration for (\$200,000); perform hydrographic surveys (\$50,000); prepare plans and specifications for Redfish to BCN 68 & Bayport Channel dredging contract (\$150,000); perform maintenance dredging of Redfish to BCN 68 & Bayport Channel to project depth (\$5,000,000); perform maintenance dredging of Redfish to BCN 68 & Bayport Channel to advance maintenance depth (\$1,500,000); perform Assumption of Maintenance contract Redfish to BCN 68 & Bayport Channel (\$1,000,000); perform supervision and administration for (\$250,000); perform hydrographic surveys for (\$100,000); perform maintenance dredging of Bolivar to Redfish to project depth (\$4,450,000); perform maintenance dredging of Bolivar to Redfish to advance maintenance depth (\$1,500,000); perform supervision and administration (\$50,000); prepare plans and specifications for Exxon to Boggy Bayou & Jacintoport dredging contract (\$125,000); perform maintenance dredging of Exxon to Boggy Bayou & Jacintoport to project depth (\$2,625,000); perform supervision and administration (\$200,000); perform hydrographic surveys (\$50,000).	Funds will be used for maintenance dredging of Sims to Turning Basin, Boggy Bayou to Greens and Greens Bayou, Exxon to Boggy Bayou and Jacintoport
TX	SWD	NHD	HOUSTON SHIP CHANNEL, TX		\$1,237,500		3		Donor and Energy Transfer Port
TX	SWD	FDRR	INSPECTION OF COMPLETED WORKS, TX	\$1,657,000		\$1,657,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
TX	SWD	ENS, FDRR, REC, WTR	JIM CHAPMAN LAKE, TX	\$1,895,000	\$93,000	\$1,988,000	6	Funds are being used for commonly performed O&M work. Specific work packages include periodic assessment (\$175,000); dam embankment erosion repair (\$36,000); steel structure inspection (\$22,000); repair of stilling basin stairs (\$20,000); and bridge inspection (\$18,000).	Funds will be used for operations for recreation
TX	SWD	ENS, FDRR, REC, WTR	JOE POOL LAKE, TX	\$2,645,000		\$2,645,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work including woody vegetation removal on embankment (\$300,000), spillway channel topography (\$150,000), and repairs to the emergency spillway (\$200,000). Funds will also be used for specific work including to continue work on the Master Plan report (\$100,000).	
TX	SWD	FDRR	LAKE KEMP, TX	\$280,000		\$280,000		Funds are being used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	LAVON LAKE, TX	\$3,932,000	\$399,000	\$4,331,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including security system repairs (\$400,000) and repair of guardrail on embankment road (\$165,000).	Funds will be used for operations for recreation
TX	SWD	ENS, FDRR, REC, WTR	LEWISVILLE DAM, TX	\$7,557,000		\$7,557,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work including to update facility security (\$2,300,000), sustainability work to install separate utility meters (\$40,000), bridge inspection (\$7,000), relocate fiber optic line (\$90,000), woody vegetation removal (\$160,000), drainage ditch modification (\$130,000), and gate repairs (\$530,000). Funds will also be used for specific work including to continue work on the Master Plan report (\$100,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TX	SWD	NHD	MATAGORDA SHIP CHANNEL, TX	\$6,450,000	\$5,000,000	\$11,450,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project condition surveys of the Matagorda Ship Channel (\$150,000); perform real estate coordination activities (\$5,000); prepare plans and specifications for maintenance dredging contract (\$150,000); perform maintenance dredging of Matagorda Peninsula to Point Comfort to project depth (\$5,675,000); perform supervision and administration of dredging contract (\$200,000); and perform hydrographic surveys (\$75,000).	Funds will be used for maintenance dredging of Matagorda peninsula to point comfort
TX	SWD	ENS, FDRR, REC, WTR	NAVARRO MILLS LAKE, TX	\$2,042,000	\$361,000	\$2,403,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including to conduct security risk audit (\$60,000).	Funds will be used for operations for recreation
TX	SWD	ENS, FDRR, REC, WTR	NORTH SAN GABRIEL DAM AND LAKE GEORGETOWN, TX	\$4,231,000		\$4,231,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work including repair of embankment road (\$75,000) and Sustainability work to install utility meters (\$20,000). Funds will also be used for specific work including Sustainability work to replace the water line (\$189,000) and convert existing wastewater systems (\$938,000). Funds will also be used for specific work including to initiate a master plan (\$250,000).	
TX	SWD	ENS, FDRR, REC, WTR	O C FISHER DAM AND LAKE, TX	\$2,851,000		\$2,851,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work including periodic assessment (\$266,000) and roadway repairs on the dam (\$1,200,000).	
TX	SWD	ENS, FDRR, REC, WTR	PAT MAYSE LAKE, TX	\$1,397,000		\$1,397,000		Funds are being used for commonly performed O&M work.	
TX	SWD	ENS, FDRR, REC, WTR	PROCTOR LAKE, TX	\$2,666,000		\$2,666,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work including a periodic assessment (\$200,000), bridge inspection (\$7,000) and security assessments (\$30,000).	
TX	SWD	NOTH	PROJECT CONDITION SURVEYS, TX	\$325,000		\$325,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
TX	SWD	ENS, FDRR, REC, WTR	RAY ROBERTS LAKE, TX	\$2,172,000		\$2,172,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work including shoreline erosion repair (\$600,000).	
TX	SWD	NHD	SABINE - NECHES WATERWAY, TX	\$11,250,000	\$8,675,000	\$21,162,500	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project condition surveys (\$450,000); real estate coordination (\$40,000); prepare plans and specifications (\$150,000); perform maintenance dredging of Outer Bar and Bank to project depth (\$3,550,000); perform supervision and administration of maintenance contract (\$200,000); perform associated environmental requirements such as sea turtle trawling (\$30,000); perform hydrographic surveys (\$70,000); prepare plans and specifications (\$150,000); perform maintenance dredging of Port Arthur Canal, Junction, Turning Basin, and Taylor's Bayou contract to project depth (\$6,000,000); perform supervision and administration (\$200,000); and perform hydrographic surveys (\$100,000).	Funds will be used for management of mitigation activities for navigation, maintenance dredging of Neches River Middle Reach, Outer Bar and Bank, Port Arthur canal, junction, turning basin and Taylor's Bayou
TX	SWD	NHD	SABINE - NECHES WATERWAY, TX		\$1,237,500		3		Donor and Energy Transfer Port

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TX	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	SAM RAYBURN DAM AND RESERVOIR, TX	\$8,963,000		\$8,963,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including repair of shoreline erosion (\$582,000); rehabilitate machine platforms and operators (\$370,000); repair slide on the left abutment of embankment (\$300,000); replace radio tower (\$210,000); investigate joint sealant and prepare plans and specifications for repairs to the stilling basin walls (\$200,000); repair spillway joints (\$120,000); replace communication system (\$110,000); and an energy audit (\$20,000). Fund will also be used for specific work including a comprehensive periodic power review (\$100,000) and assessment of physical and cyber security (\$60,000). As a multiple purpose project with power, the project's budget includes Joint activities with total allocation of \$748,000 shared between business lines as follows: HYD 0.11%, FRM 44.06%, and ENS 55.83%.	
TX	SWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, TX	\$295,000		\$295,000	Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
TX	SWD	ENS, FDRR, REC, WTR	SOMERVILLE LAKE, TX	\$4,904,000		\$4,904,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including stilling basin repairs (\$305,000), repair of ogee weir (\$235,000), repair/replace shelter over operating deck to mitigate for arc flash (\$312,000), embankment road repairs (\$500,000), woody vegetation removal (\$78,000), and a periodic assessment (\$11,000). Sustainability work will be funded to install utility meters (\$20,000).	
TX	SWD	ENS, FDRR, REC, WTR	STILLHOUSE HOLLOW DAM, TX	\$6,621,000		\$6,621,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including to replace the flood gates (\$3,000,000), repair the south sluice flood gates (\$400,000), replace an exiting weir (\$62,000), and outlet works channel repairs (\$210,000). Sustainability work will fund an energy audit (\$20,000). Sustainability work will fund a water line replacement (\$200,000).	
TX	SWD	NHD	TEXAS CITY SHIP CHANNEL, TX	\$50,000	\$8,700,000	\$9,987,500	FY 2019 work plan Funds are being used for commonly performed operation and maintenance work (\$20,000). Funds will also be used for specific work activities including project condition surveys for the Texas City Ship Channel (\$25,000) and real estate coordination activities (\$5,000).	Funds will be used for maintenance dredging of entrance channel and inner harbor, main channel and turning basin
TX	SWD	NHD	TEXAS CITY SHIP CHANNEL, TX		\$1,237,500			Donor and Energy Transfer Port
TX	SWD	ENS, FDRR, HYD, REC	TOWN BLUFF DAM, B A STEINHAGEN LAKE, TX	\$7,582,000	\$20,000	\$7,602,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including replacement of rip rap (\$460,000); embankment repairs (\$615,000); repair cracks at outlet works and spillway (\$400,000); repair of discharge channel (\$262,000); repair embankment (\$215,000); repair of concrete slab to overflow embankment (\$165,000); repair public dam roadway (\$150,000); and repair cracked main dam (\$2,000,000).	Funds will be used for operations for recreation
TX	SWD	ENS, FDRR, REC, WTR	WACO LAKE, TX	\$5,669,000		\$5,669,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including to repair the outlet bridge (\$96,000) and for the Phase 3 repair of the tainter gates (\$2,500,000).	
TX	SWD	FDRR	WALLISVILLE LAKE, TX	\$2,232,000		\$2,232,000	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including water management (control and quality) activities (\$155,000); perform real estate management activities (\$228,000); resolution of real estate encroachments (\$57,000); perform dam safety instrumentation, data collection and analysis (\$52,000); perform dam safety formal periodic assessments, inspections and reports (\$95,000); and perform environmental compliance management activities (\$28,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

TX	SWD	ENS, FDRR, HYD, JOINT, REC, WTR	WHITNEY LAKE, TX	\$10,253,000	\$300,000	\$10,553,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including maintenance and repair of the tainter gates (\$2,509,000), bridge repairs (\$203,000), and replace project office roof (\$144,000). Sustainability work will be funded to upgrade and repair the water systems (\$370,000). As a multiple purpose project with power, the project's budget includes joint activities, with a total allocation of \$296,000 shared between business lines as follows: HYD – 22%, FRM – 69%, and ENS – 9%.	Funds will be used for shoreline management activities
TX	SWD	ENS, FDRR, REC, WTR	WRIGHT PATMAN DAM AND LAKE, TX	\$5,418,000	\$251,000	\$5,669,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work including repair of gates (\$1,500,000); evaluate splitter and wing walls for failure during releases (\$200,000); maintenance and repair of access to conduit for confined space rescues (\$115,000); repair surface access road to toe ditch (\$83,000); and repair concrete on outlet works and spillway (\$55,000). Funds will also be used for Sustainability work including to replace water lines (\$169,000) and windows for park gatehouses (\$124,000).	Funds will be used for operations for recreation
UT	SPD	FDRR	INSPECTION OF COMPLETED WORKS, UT	\$24,000		\$24,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
UT	SPD	FDRR	SCHEDULING RESERVOIR OPERATIONS, UT	\$477,000		\$477,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
VA	NAD	NIL	ATLANTIC INTRACOASTAL WATERWAY - ACC, VA	\$2,644,000	\$900,000	\$3,544,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for repair and replacement one set of valves to the Great Bridge Lock on the Atlantic Intracoastal Waterway.
VA	NAD	FDRR, NIL	ATLANTIC INTRACOASTAL WATERWAY - DSC, VA	\$1,438,000	\$444,000	\$1,882,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for repair of the historical lock superintendents house located on Route 17 of the Dismal Swamp Canal
VA	NAD	NHS	CHINCOTEAGUE INLET, VA	\$0	\$750,000	\$750,000	5		Funds will be used for maintenance dredging
VA	NAD	FDRR, FOTH	GATHRIGHT DAM AND LAKE MOOMAW, VA	\$2,709,000	\$890,000	\$3,599,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for inspection and repairs of service and emergency gates.
VA	NAD	NHD	HAMPTON ROADS, NORFOLK & NEWPORT NEWS HARBOR, VA (DRIFT REMOVAL)	\$1,500,000	\$1,600,000	\$3,100,000	2	Funds are being used for specific work activities that must be performed to enhance the current Level of Performance. These activities include the operation and maintenance of two patrol boats, a derrick boat and a crane barge, with necessary crew, to provide for safe navigation and debris removal seven days per week. The removal of hazards from the federal channels in and around the waterways of Hampton Roads ensures safe transit of military, commercial and private vessels.	Funds will be used for repair and enhancements to district pier
VA	NAD	NHD	HAMPTON ROADS, VA (PREVENTION OF OBSTRUCTIVE DEPOSITS)	\$38,000	\$136,000	\$174,000	2	Funds are being used for specific work activities to include the enhancement of the current Level of Performance by providing prevention of deposits seven days per week. The removal of hazards from the federal channels in and around the waterways of Hampton Roads ensures safe transit of military, commercial and private vessels. This project involves the detection, investigation, and supervision of the removal of hazards and obstructions to navigation, in order to avoid serious jeopardy to the large volume of commercial and recreational vessel traffic in the Norfolk Harbor and its associated channels.	Funds will be used for prevention of deposits
VA	NAD, SAD	FDRC, FDRR, FOTH	INSPECTION OF COMPLETED WORKS, VA	\$432,000		\$432,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
VA	NAD	NHD	JAMES RIVER CHANNEL, VA	\$350,000	\$8,065,000	\$8,415,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging of critical shoals, maintenance of James River placement area

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

VA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	JOHN H KERR LAKE, VA & NC	\$13,820,000		\$13,820,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including develop plans and specifications for Island Creek transformer (\$300,000), develop Plans and Specifications to install an emergency outlet gate at Island Creek Pumping Station (\$250,000), Overhaul Floating Bulkhead Stop Log (\$1,500,000), Dam Safety maintenance flushing (\$10,000), and installing a circuit switch (\$10,000). Funds will also be used for specific work activities including repair of historic sites (\$50,000), cultural resources surveys (\$130,000), and develop Historic properties plan (\$250,000). Funds will also be used for specific work activities including review and update yield based on new drought record (\$50,000). The budgeted amount for the project includes \$1,214,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 81% and FRM - 19%. Funds will also be used for specific work activities including Dam Safety periodic inspection (\$130,000).	
VA	LRD	ENS, FDRR, REC, WTR	JOHN W FLANNAGAN DAM AND RESERVOIR, VA	\$2,888,000	\$409,000	\$3,297,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing the sluice gates (\$1,000,000) and rewiring the intake and installing a new motor control panel (\$250,000).	Funds will be used for operations and maintenance for recreation
VA	NAD	NHS	LYNNHAVEN INLET, VA	\$0	\$650,000	\$650,000	5		Funds will be used for maintenance dredging
VA	NAD	NHD	NORFOLK HARBOR, VA	\$21,925,000	\$7,760,000	\$34,635,000	2	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging within Norfolk Harbor Reach and Craney Island Reach, and Thimble Shoal Channel (\$11,100,000), and prepare update to the capacity and optimal placement plan at Craney Island (\$300,000).	Funds will be used for maintenance dredging of Norfolk Harbor channels, maintenance of Norfolk Harbor Craney Island disposal facility, equipment replacement and spillbox replacement
VA	NAD	NHD	NORFOLK HARBOR, VA		\$4,950,000		3		Donor and Energy Transfer Port
VA	LRD	ENS, FDRR, REC, WTR	NORTH FORK OF POUND RIVER LAKE, VA	\$848,000	\$20,000	\$868,000	6	Funds are being used for commonly performed O&M work.	Funds will be used for operations and maintenance for recreation
VA	SAD	ENS, FDRR, HYD, JOINT, REC, WTR	PHILPOTT LAKE, VA	\$5,520,000		\$5,520,000		Funds are being used for commonly performed O&M work. There is a total of \$25,000 for sustainability work on the project for waterline rehab. Funds will also be used for specific work activities including surveys for the Integrated Cultural Resources Management Plan (\$225,000). Funds are being used for specific work activities including water reallocation study (\$300,000). The budgeted amount for the project includes \$692,000 for commonly performed O&M work jointly used by multiple business lines: HYD - 45% and FRM - 55%. Funds will also be used for specific work activities including monitoring and installing crack gauges (\$60,000), establish Dam Safety control and monitoring program (\$2,000), HSS inspection (\$50,000), and revise emergency action plan (\$10,000).	
VA	NAD	NOTH	PROJECT CONDITION SURVEYS, VA	\$1,215,000		\$1,215,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
VA	NAD	NHS	QUEENS CREEK, MATHEWS COUNTY, VA	\$0	\$200,000	\$200,000	5		Funds will be used for maintenance dredging
VA	NAD	NHS	RUDEE INLET, VA	\$0	\$425,000	\$425,000	5		Funds will be used for maintenance dredging
VA	NAD	NHS	WATERWAY ON THE COAST OF VIRGINIA, VA	\$0	\$110,000	\$110,000	5		Funds will be used for project condition surveys
VI	SAD	FOTH	INSPECTION OF COMPLETED WORKS, VI	\$49,000		\$49,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

VI	SAD	NOTH	PROJECT CONDITION SURVEYS, VI	\$50,000		\$50,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
VT	NAD	ENS, FDRR, REC	BALL MOUNTAIN, VT	\$1,434,000		\$1,434,000		Funds are being used for commonly performed O&M activities. Funds will also be used for specific work activities including bridge inspections (\$10,000), a periodic inspection (\$100,000), replace the thrust nut cover on flood control gate #2 (\$35,000), design vehicular access to toe of dam (\$350,000), and perform an inspection of the inlet structure (\$20,000).	
VT	NAD	FDRR	INSPECTION OF COMPLETED WORKS, VT	\$174,000		\$174,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
VT	NAD	ENS, FDRR, REC	NORTH HARTLAND LAKE, VT	\$1,171,000	\$5,000	\$1,176,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspections (\$120,000), evaluate conditions of Dewey Mills Dam (\$18,000), replace log boom logs (\$25,000) and replace office septic system (\$110,000).	Funds will be used for maintenance for recreation
VT	NAD	ENS, FDRR, REC	NORTH SPRINGFIELD LAKE, VT	\$739,000		\$739,000		Funds are being used for commonly performed O&M work.	
VT	NAD	ENS, FDRR, REC	TOWNSHEND LAKE, VT	\$1,577,000	\$82,000	\$1,659,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including a bridge inspection (\$3,000), paint spillway bridge (\$560,000), repair guardrails (\$75,000), install solar array (\$90,000), automate v-notch weirs (\$95,000), conduct bathymetric sediment survey (\$17,000), and conduct a wetland survey (\$10,000).	Funds will be used for operations and maintenance for recreation
VT	NAD	ENS, FDRR, REC	UNION VILLAGE DAM, VT	\$860,000	\$50,000	\$910,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including periodic inspection of the project, replacing the motor control center (\$35,000), and renovating the park ranger office (\$30,000).	Funds will be used for operations and maintenance for recreation
WA	NWD	NHD	BELLINGHAM HARBOR, WA	\$2,000	\$5,145,000	\$5,147,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for condition survey and maintenance dredging of squalicum waterway
WA	NWD	REC	CHIEF JOSEPH DAM, WA	\$600,000		\$600,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHD	COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA & PORTLAND, OR	\$47,220,000	\$16,844,000	\$64,064,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for preparation of engineering and design for Cottonwood Island pile dikes, for pile dikes at Miller-Rice islands and for pile dikes on Skamokawa Reach at Price Island, rebuilding of missing King pile safety markers, preparation of Columbia River dredged material management plan and Columbia river regional sediment management plan, performance of sediment quality sampling and evaluation at tongue point and at east shoal b at albina turning basin rm 10, performance of maintenance dredging of skamokawa creek deep draft channel, albina turning basin, Longview turning basin, Westport slough side channel, old mouth Cowlitz channel
WA	NWD	NHD	COLUMBIA RIVER AT BAKER BAY, WA & OR	\$5,000	\$1,234,000	\$1,239,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging and completion of engineering evaluation report for Baker Bay pile dikes
WA	NWD	NHS	COLUMBIA RIVER BETWEEN CHINOOK AND SAND ISLAND, WA	\$1,000		\$1,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHD	COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR	\$881,000	\$3,381,000	\$4,262,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for environmental monitoring for dredging purposes, maintenance dredging of upstream end of Oregon Slough side channel, rebuilding of missing King pile dike markers on critical pile dikes, engineering and design for critical repair of pile dikes at Washougal turn

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

WA	NWD	FOTH, NOTH	COLUMBIA RIVER FISH MITIGATION, WA, OR & ID	\$3,476,000		\$3,476,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHD	EVERETT HARBOR AND SNOHOMISH RIVER, WA	\$1,980,000	\$700,000	\$2,680,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
WA	NWD	NHS	FRIDAY HARBOR, WA	\$2,000	\$540,000	\$542,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for concrete floating breakwater repair
WA	NWD	NHD	GRAYS HARBOR, WA	\$11,237,000	\$3,555,000	\$14,792,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for repair of north jetty, environmental assessment documents for breach fill and breakwater a repair, engineering and design of the extension of the south jetty, the sand spit and beaches nourishment, and the north jetty fish passages
WA	NWD	ENS, FDRR	HOWARD HANSON DAM, WA	\$12,680,000	\$1,900,000	\$14,580,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including construction of a new crane pad (\$800,000) and rehabilitation of the spillway gates (\$8,000,000).	Funds will be used for spillway gates rehabilitation
WA	NWD	ENS, JOINT, NIH, REC	ICE HARBOR LOCK AND DAM, WA	\$5,075,000	\$60,000	\$5,135,000	1	Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,969,000 for project features jointly used by multiple business lines: NAV - 100.0%.	Funds will be used for repair of Ice Harbor coffer cell #4
WA	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, WA	\$70,000		\$70,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
WA	NWD	FDRR	INSPECTION OF COMPLETED WORKS, WA	\$922,000		\$922,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WA	NWD	NHD	LAKE CROCKETT (KEYSTONE HARBOR), WA	\$16,000		\$16,000		Funds are being used for specific work activities including the conversion and validation of real estate project map data into an integrated enterprise GIS program (\$16,000).	
WA	NWD	ENS, NHD, REC	LAKE WASHINGTON SHIP CANAL, WA	\$8,066,000	\$2,937,000	\$11,003,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for operation and maintenance for navigation, environmental compliance management for navigation, water mgmt. activities for navigation, facility security for navigation, real estate management for navigation, small lock machinery replacement design, small lock emergency closure system design, large lock center gate design, Fremont wall repair, montlake wall repair, saltwater drain intake design, temporary exclusion structure, endangered species act consultation
WA	NWD	ENS, JOINT, NIH, REC	LITTLE GOOSE LOCK AND DAM, WA	\$3,506,000		\$3,506,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an update to the 1969 master plan (\$121,000). The budgeted amount for the project includes \$1,104,000 for project features jointly used by multiple business lines: NAV - 100%. Funds will also be used for specific work activities including design of the preferred alternative to restore the north shore fish ladder jetty (\$412,000) and design of the replacement of the adult fish collection channel sluice gates (\$20,000).	
WA	NWD	ENS, JOINT, NIH, REC	LOWER GRANITE LOCK AND DAM, WA	\$4,347,000		\$4,347,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an update to the 1974 master plan (\$143,000). The budgeted amount for the project includes \$1,049,000 for project features jointly used by multiple business lines: NAV - 100%. Funds will also be used for specific work activities including the purchase of a fish transportation truck and 1,000 gallon tank (\$220,000) and a fish transportation tractor and 3,500 gallon tanker trailer (\$720,000).	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

WA	NWD	ENS, JOINT, NIH, REC	LOWER MONUMENTAL LOCK AND DAM, WA	\$3,430,000	\$25,000	\$3,455,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an update to the 1974 master plan (\$161,000) and an upstream gate reliability analysis (\$62,000). The budgeted amount for the project includes \$982,000 for project features jointly used by multiple business lines: NAV - 100%. Funds will also be used for specific work activities including replacement of a failed diffuser grating in North Fish Ladder (\$342,000).	Funds will be used for maintenance for recreation
WA	NWD	ENS, FDRR, REC	MILL CREEK LAKE, WA	\$5,486,000	\$740,000	\$6,226,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacement of bridge corbels at the division works (\$353,000), construction of interior features for the new maintenance building (\$480,000), intake canal and diversion dam diffuser block repairs (\$424,000), diversion dam grouted riprap scour repairs (\$143,000) and replace safety rails over division works (\$90,000).	Funds will be used for repair and paving of Reservoir Road
WA	NWD	FDRR	MOUNT SAINT HELENS SEDIMENT CONTROL, WA	\$135,000		\$135,000		Funds are being used for commonly performed O&M work.	
WA	NWD	ENS, FDRR, REC	MUD MOUNTAIN DAM, WA	\$6,174,000	\$34,000	\$6,208,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including design to improve Cascade Creek slope stability (\$300,000) and continued construction oversight of the 9ft tunnel liner replacement (\$442,000).	Funds will be used for boundary and flowage easement inspections, monitoring and routine maintenance for environmental stewardship
WA	NWD	NHD	NEAH BAY, WA	\$17,000		\$17,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHD	OLYMPIA HARBOR, WA	\$2,000		\$2,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHS	PORT TOWNSEND, WA	\$14,000		\$14,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NOTH	PROJECT CONDITION SURVEYS, WA	\$1,046,000		\$1,046,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
WA	NWD	NHD	PUGET SOUND AND TRIBUTARY WATERS, WA	\$1,485,000		\$1,485,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHS	QUILLAYUTE RIVER, WA	\$1,673,000	\$300,000	\$1,973,000	5	Funds are being used for commonly performed O&M work.	Funds will be used for sea dike repair
WA	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, WA	\$463,000		\$463,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
WA	NWD	NHD	SEATTLE HARBOR, WA	\$1,816,000	\$700,000	\$5,298,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for maintenance dredging
WA	NWD	NHD	SEATTLE HARBOR, WA		\$2,782,000		3		Donor and Energy Transfer Port
WA	NWD	FDRR	STILLAGUAMISH RIVER, WA	\$2,917,000		\$2,917,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including re-design and repair of the fish weir (\$125,000) and construction of the designed modifications and upgrades needed on the fish weir to allow safe passage of fish (\$2,500,000).	
WA	NWD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WA	\$80,000		\$80,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

WA	NWD	NHS	SWINOMISH CHANNEL, WA	\$2,000		\$2,000		Funds are being used for commonly performed O&M work.	
WA	NWD	NHD	TACOMA HARBOR, WA	\$15,000	\$2,744,000	\$2,759,000	3	Funds are being used for commonly performed O&M work.	Donor and Energy Transfer Port
WA	NWD	FDRR	TACOMA, PUYALLUP RIVER, WA	\$178,000		\$178,000		Funds are being used for commonly performed O&M work.	
WA	NWD	ENS, JOINT, NIH, REC	THE DALLES LOCK AND DAM, WA & OR	\$3,274,000		\$3,274,000		Funds are being used for commonly performed O&M work. The budgeted amount for the project includes \$1,355,000 for project features jointly used by multiple business lines: NAV = 100%.	
WA	NWD	NHD	WILLAPA RIVER AND HARBOR, WA	\$44,000		\$44,000		Funds are being used for specific work activities to include the conversion and validation of real estate project map data into an integrated enterprise GIS program (\$44,000).	
WI	MVD	ENS, FDRR, REC	EAU GALLE RIVER LAKE, WI	\$829,000		\$829,000		Funds are being used for commonly performed O&M work.	
WI	LRD	ENS, FDRR	FOX RIVER, WI	\$4,267,000		\$4,267,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including replacing gate seals at Lower Appleton Dam (\$225,000), repairing the left abutment at Cedars Dam (\$400,000), investigating the sinkhole issues at Little Chute and Kaukauna Dams (\$120,000), replacing walkways and railings over spillway sections of Upper Appleton Dam (\$900,000), repairing the left abutment walkway at Menasha Dam (\$150,000), and updating the Master Plan (\$35,000).	
WI	LRD	NHD	GREEN BAY HARBOR, WI	\$3,920,000		\$3,920,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$3,500,000).	
WI	MVD	FDRR	INSPECTION OF COMPLETED WORKS, WI	\$41,000		\$41,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WI	LRD	NHD	KENOSHA HARBOR, WI	\$0	\$200,000	\$200,000	2		Funds will be used for repair detached breakwater
WI	LRD	ENS	KEWAUNEE HARBOR, WI	\$18,000	\$930,000	\$948,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for dredging for navigation and sheet pile structure repairs
WI	LRD	NHD	MANITOWOC HARBOR, WI	\$0	\$900,000	\$900,000	2		Funds will be used for dredging for navigation
WI	LRD	NHD	MILWAUKEE HARBOR, WI	\$2,090,000		\$2,090,000		Funds are being used for specific work activities including maintenance dredging (\$500,000) and repairs of the most critical portions of the north breakwater to protect the navigation channel (\$1,570,000). Also, real estate management for navigation (\$20,000).	
WI	MVD	NOTH	PROJECT CONDITION SURVEYS, WI	\$325,000		\$325,000		Funds are being used for performing hydrographic and topographic project condition surveys (PCS) for Federally-authorized navigation projects, including navigation channels, inlets, anchorages, structures such as jetties and breakwaters, and other navigation features within the states. Funds are also used to respond to unanticipated needs, including concerns raised by the U.S. Coast Guard, local harbor masters, or other agencies regarding projects that have become shoaled as a result of severe storms and/or abnormal deposition rates that may have compromised safe navigation.	
WI	LRD	NHD	SHEBOYGAN HARBOR, WI	\$0	\$5,525,000	\$5,525,000	2		Funds will be used for south breakwater repairs
WI	LRD	NHD, REC	STURGEON BAY HARBOR AND LAKE MICHIGAN SHIP CANAL, WI	\$6,000	\$900,000	\$911,000	2	Funds are being used for commonly performed O&M work.	Funds will be used for dredging for navigation
WI	LRD	REC	STURGEON BAY HARBOR AND LAKE MICHIGAN SHIP CANAL, WI		\$5,000		6		Funds will be used for maintenance activities for recreation
WI	LRD	FDRR	SURVEILLANCE OF NORTHERN BOUNDARY WATERS, WI	\$200,000		\$200,000		Funds are being used for monitoring of lake levels and outflows; monitoring and approving international apportionment of water; forecasting lake levels and river flows during periods of high or low water collecting, analyzing, and maintaining hydrometeorologic data, including post-flood reports; monitoring flood operations; assisting in transboundary dispute resolution; and preparing and disseminating information to the public.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

WV	LRD	ENS, FDRR, REC	BEECH FORK LAKE, WV	\$1,842,000		\$1,842,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$220,000), repairing bypass discharge gates (\$50,000), replacing the downstream bridge (\$100,000), repairing the selective withdrawal gates (\$36,000), replacing the bulkhead crane (\$100,000), and fabricating the mattress bulkhead (\$20,000).	
WV	LRD	ENS, FDRR, REC	BLUESTONE LAKE, WV	\$4,863,000	\$32,000	\$4,895,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$33,000), performing an instrumentation survey (\$38,000), security upgrades (\$2,308,000), updating the Interim Risk Reduction Measure Plan (\$6,000), and rehabilitation of the sluice deflectors (\$50,000).	Funds will be used for operations and maintenance for recreation
WV	LRD	ENS, FDRR, REC	BURNSVILLE LAKE, WV	\$3,240,000		\$3,240,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including an arc flash review (\$10,000), upgrades to the security measures (\$30,000), surveying the surface displacement monuments (\$50,000), replacing electric wires to the radio tower (\$50,000), replacing the sluice gate cylinder seals (\$50,000), rehabilitating the foundation drains (\$500,000), replacing the knife gate (\$20,000), spraying rip rap around the dam (\$10,000) and maintaining the Bulltown historic	
WV	LRD	ENS, FDRR, REC	EAST LYNN LAKE, WV	\$2,183,000	\$125,000	\$2,308,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including performing an instrumentation survey (\$17,000).	Funds will be used for maintenance for recreation
WV	LRD	FDRR	ELKINS, WV	\$118,000		\$118,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including project requests from the sponsor (\$15,000).	
WV	LRD	FDRR	INSPECTION OF COMPLETED WORKS, WV	\$474,000		\$474,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WV	LRD	ENS, NIH, NIL, REC	KANAWHA RIVER LOCKS AND DAMS, WV	\$9,979,000	\$1,450,000	\$11,427,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including dredging activities (\$338,000), steel inspections (\$4,000), an instrumentation survey at Winfield L&D (\$24,000), repairing the dam roller gate #2 apron at Winfield L&D (\$1,000,000), engineering and design to fabricate one replacement dam roller gate at Winfield L&D (\$500,000), and engineering and design to rehabilitate the pier at Marmet L&D (\$250,000).	Funds will be used for Kanawha River basic operations and maintenance for navigation
WV	LRD	REC	KANAWHA RIVER LOCKS AND DAMS, WV		\$58,000		6		Funds will be used for operations for recreation
WV	LRD	ENS, NIH, REC	OHIO RIVER LOCKS AND DAMS, WV, KY & OH	\$29,834,000	\$2,520,000	\$32,354,000	4	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$582,000); repairing main lock miter gate and dewatering at Willow Island L&D (\$4,050,000); repairs to the middle lock wall (\$2,200,000), repairs to the lock wall concrete (\$1,650,000), and investigating the scour downstream of the dam (\$150,000) at Greenup L&D; dewatering and repairs at Willow Island L&D (\$1,350,000); an instrumentation survey at Robert C. Byrd L&D (\$38,000); coordination activities on Barker House at Willow Island L&D (\$60,000); and security plans and specifications at Robert C. Byrd L&D (\$150,000) and Belleville L&D (\$150,000).	Funds will be used for Greenup Locks and Dam monoliths grouting, R.C. Byrd Locks and Dam main chamber miter gate repairs, land acquisition and disposal management activities
WV	LRD	NIH	OHIO RIVER OPEN CHANNEL WORK, WV, KY & OH	\$2,684,000		\$2,684,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including maintenance dredging (\$2,159,000).	
WV	LRD	ENS, FDRR, REC	R D BAILEY LAKE, WV	\$1,811,000	\$385,000	\$2,196,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including initiating an arc flash review (\$10,000) and repairing the cavitation of the sluice gates (\$55,000).	Funds will be used for maintenance for recreation

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

WV	LRD	ENS, FDRR, REC, WTR	STONEWALL JACKSON LAKE, WV	\$1,505,000	\$35,000	\$1,540,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including security upgrades (\$27,000) and update of the Master Plan (\$200,000).	Funds will be used for operations for recreation
WV	LRD	ENS, FDRR, REC, WTR	SUMMERSVILLE LAKE, WV	\$2,579,000		\$2,579,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including investigating the butterfly valves (\$65,000), an arc flash analysis (\$10,000), and completing the Master Plan update (\$150,000).	
WV	LRD	ENS, FDRR, REC	SUTTON LAKE, WV	\$2,522,000		\$2,522,000		Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including inspection activities (\$4,000), completing the arc flash review (\$10,000), performing an instrumentation survey (\$34,000), replacing the project backhoe (\$80,000), replacing seals on water-tight doors (\$20,000), repairing alignment pins (\$35,000), replacing electric service to the maintenance building (\$75,000), and removing the 36-inch low flow valve in the dam from service (\$30,000).	
WV	LRD	ENS, FDRR, REC, WTR	TYGART LAKE, WV	\$1,693,000	\$46,000	\$1,739,000	6	Funds are being used for commonly performed O&M work. Funds will also be used for specific work activities including security upgrades (\$100,000) and flowage easement activities (\$19,000).	Funds will be used for operations for recreation
WY	NWD	ENR	INSPECTION OF COMPLETED ENVIRONMENTAL PROJECTS, WY	\$15,000		\$15,000		Funds are being used to conduct pre-inspection preparation, post-inspection reporting, transmit notification requirements to the sponsor, and add completed inspection reports to the National Ecosystem Restoration Project Database. The program covers all 50 states and territories of the U.S.	
WY	NWD	FDRR	INSPECTION OF COMPLETED WORKS, WY	\$123,000		\$123,000		Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. Funds are also used to review updates to project operation and maintenance manuals.	
WY	NWD	FDRR	JACKSON HOLE LEVEES, WY	\$588,000		\$588,000		Funds are being used for commonly performed O&M work.	
WY	NWD	FDRR	SCHEDULING RESERVOIR OPERATIONS, WY	\$107,000		\$107,000		Funds are being used to manage and operate stream gages, rain gages, and reservoir level gages for flood forecasting and reservoir regulating; for data collection to support operational decisions, environmental monitoring, and drought contingency actions; and for additional activities such as dam operator and flood training exercises.	
XX	ERDC	RI	AQUATIC NUISANCE CONTROL RESEARCH	\$3,000,000		\$3,000,000		Funds are being used to complete field studies to monitor and determine longevity and fecundity estimates for Asian carp populations. Data will be used to reparametrize and improve existing population models for assessing Asian carp impacts to aquatic ecosystems. Complete field studies to evaluate the performance of deployed traps and barriers retrofitted with submersed metals to prevent passage of sea lamprey. Initiate the development and evaluation of new, non-toxic antifouling technologies for protection of Corps hydraulic structures to reduce the corrosion risk and maintenance costs associated with invasive mussels (zebra and quagga mussels) and other aquatic invasive macro-fouling organisms.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

XX	HQ	RI	ASSET MANAGEMENT / FACILITY EQUIPMENT MANAGEMENT SYSTEM	\$3,650,000	\$133,000	\$3,783,000	2	Funds are being used to implement ORA and refinements for flood and coastal storm damage reduction and navigation projects, respectively. Coordinate draft outputs from the Corps Value Model effort. Develop improved reporting for two of the eight PMMPs, including automation of data between the Facilities and Equipment Maintenance system (FEM) and the Enterprise Data Warehouse (EDW). Conduct system modeling on Missouri River hydropower system. Complete the OCA tool, training, and guidance for recreation assets. Continue development of baseline OCA and ORA for navigation channels and environmental stewardship assets. Continued implementation and refinement of MMIPs, including developing better reports and metrics for measuring progress.	Funds will be used for operational condition and risk assessments including methodology and associated tools particularly for hydropower and recreation.
XX	SWD	RI	CIVIL WORKS CYBER SECURITY CONTROL SYSTEMS	\$4,000,000		\$4,000,000		Funds are being used to conduct cybersecurity posture assessments at Corps projects.	
XX	MVD	RI	CIVIL WORKS WATER MANAGEMENT SYSTEM (CWWMS)	\$10,000,000		\$10,000,000		Funds are being used to continue to the nationwide CWMS modeling effort to enhance the operational decision making for floods, droughts, operations planning and real-time operations. This will include developing the hydrologic and hydraulic models required for a watershed approach to effectively meet authorized purposes. Data collection, data dissemination, and modeling and analysis capabilities will be addressed on a national level. Funds from this account will be used to complete the 22 basins started in FY 2017 as well as 5 new start basins in FY 2018. An additional 18 basins will be started in FY 2018; due to size and complexity, all of these basins will be completed in FY 2019. At the end of FY 2018, 118 of the 201 basins will be implemented. In addition, the Funds are being used to help establish continuity of operations capabilities that fully support the water management mission and complies with U.S. Army Corps of Engineers and Department of Defense Corporate Information Assurance and Security requirements. With the basins scheduled for completion through FY 2018, 74% of the total USACE land area will be modeled, 84% of the USACE river miles will be modeled, and 80% of the USACE reservoirs will be modeled.	
XX	ERDC	RI	COASTAL INLET RESEARCH PROGRAM	\$7,975,000		\$7,975,000		Funds are being used for the Coastal Inlets Research Program is used to advance knowledge and tools to better predict future channel shoaling, to provide quantitative and practical predictive tools and data to reduce the cost of dredging for Federal navigation projects and to maintain jetties, identify potential unintended consequences, mitigate for engineering activities related to navigation channels, and prioritize maintenance options.	
XX	ERDC	RI	COASTAL OCEAN DATA SYSTEM (CODS)	\$6,500,000		\$6,500,000		Funds are being used to update WIS data management and delivery system by migrating processing algorithms from Matlab code to python to reduce software costs and improving interoperability through refined graphical displays and data download capabilities. Use results from the FLOSSIE intra-measurement experiment in Monterey Bay (the experiment measured response of different buoys and sensor packages to optimize spectral data capabilities) to determine the quality of the past three decades of NOAA's NDBC 6N (NOMAD) buoy data. These 6N buoy systems are generally deployed in deep water and are the basis of altimeter algorithms to estimate wave height from satellite data. Updated WaveEval Tools will be used for rigorous spectral analysis evaluation of historical data.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

XX	MVD	RI	CULTURAL RESOURCES (NAGPRA/CURATION)	\$1,000,000		\$1,000,000		Funds are being used to provide overall management of the Corps' NAGPRA programs and serves as a centralized base for compliance, an information source, and contracting. The Corps facilitates consistent nationwide NAGPRA program implementation and operation, which includes inventorying and summarizing collections, consulting with Indian tribes, researching cultural affiliation and aboriginal occupation, and returning NAGPRA collections to the appropriate Indian tribes.	
XX	NAD	RI	DREDGE MCFARLAND READY RESERVE	\$11,690,000		\$11,690,000		Funds are being used to maintain the dredge McFarland in ready reserve status with sufficient crew to respond within 72 hours when directed to do so for urgent and emergency purposes, and to Funds are being used 70 days of required training work in the Delaware River and Bay as specified in its authorization, with dredging work charged to the project deducted .	
XX	MVD	RI	DREDGE WHEELER READY RESERVE	\$15,000,000		\$15,000,000		Funds are being used to maintain the Wheeler in ready reserve status, and will not be assigned any scheduled hopper dredging work other than 70 days of maintenance dredging that will be completed in conjunction with readiness exercises to maintain the skills of the crew, and ensure that the Wheeler remains in a fully operational state, ready to respond to any emergent dredging requirements. The Wheeler will remain at the dock, with sufficient crew to respond within 72 hours when directed to do so.	
XX	IWR	RI	DREDGING DATA ANALYSIS/OPTIMIZATION TOOLS FOR NAVIGATION	\$322,000	\$125,000	\$447,000	1	Funds are being used for system improvements for ship and cargo route modeling.	Funds will be used for completion of modification of system and data for inland harbors
XX	IWR	RI	DREDGING DATA AND LOCK PERFORMANCE MONITORING SYSTEM	\$1,120,000	\$250,000	\$1,620,000	1	Funds are being used for Data Migration work for data critical to the collection of transportation data at our inland facilities and the Dredging Information System, system interface improvements.	Funds will be used for notice to navigation interests version 2 implementation
XX	IWR	RI	DREDGING DATA AND LOCK PERFORMANCE MONITORING SYSTEM		\$250,000		2		Funds will be used for dredging information system (dis) v3 implementation
XX	ERDC	RI	DREDGING OPERATIONS AND ENVIRONMENTAL RESEARCH (DOER)	\$6,450,000	\$500,000	\$6,950,000	2	Funds are being used to fund activities that can be used to benefit both current and future projects. Focus areas are: Sediment and Dredging Processes; Dredged Material Management; Environmental Resource Management; Risk Management.	Funds will be used for development of engineering with nature guidance
XX	ERDC	RI	DREDGING OPERATIONS TECHNICAL SUPPORT PROGRAM (DOTS)	\$2,820,000		\$2,820,000		Funds are being used for technical assistance to field offices to bolster technical expertise for new or ongoing issues that impact the execution of the program.	
XX	HQ	RI	EARTHQUAKE HAZARDS REDUCTION PROGRAM	\$300,000		\$300,000		Funds are being used to develop and implement a Seismic Safety Action Classification System (SSAC) for buildings. This program provides evaluation procedures for ranking civil works buildings in order of greatest seismic risk. This program will meet the executive order requirements, while continuing to develop technical seismic building evaluation and mitigation procedures. Funds are also used to provide seismic input to Headquarters publications as needed, provide interpretation of seismic codes and criteria as needed, maintain technical seismic expertise, supplement development of guidance for seismic design of Civil Works projects, address lifeline systems not previously covered in commercially available standards or existing USACE guidance, and to develop guidance for operations personnel.	
XX	HQ	RI	F&WL OPERATING FISH HATCHERY REIMBURSEMENT	\$5,400,000		\$5,400,000		Funds are being transferred to the USFWS to produce and release approximately 12 million mitigation fish at 45 different receiving waters impacted by 37 Corps dams to meet mitigation requirements.	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

XX	HQ	RI	FACILITY PROTECTION	\$6,000,000		\$6,000,000	Funds are being used for the USACE CIPR program to implement the 2018 consequence-based screening and prioritization efforts at USACE Civil Works projects using the Dams Sector Consequence-Based Top Screen (CTS) methodology to identify and prioritize those high-consequence (critical) facilities in USACE's Civil Works portfolio. This process informs which projects represent the highest priority to conduct Common Risk Model for Dams security risk assessments. Some additional activities in FY2018 will include enhancements of web-based capabilities (Corps of Engineers Security Assessment Tool) and support to MSCs and Districts on CRM-D implementation at USACE Civil Works projects.	
XX	IWR	RI	HARBOR MAINTENANCE FEE DATA COLLECTION	\$795,000	\$145,000	\$940,000	Funds are being used by the Corps to document the operation of the trust fund, analyze waterborne commerce shipments and vessel movement data to respond to legal questions to the HMT and the increasing requests for HMTF data/analyses, collaborate with CBP to improve CBP-Corps data communication systems to target delinquent domestic shippers for audit to increase HMT collections, continue ongoing HMT data collection and analysis programs, and to develop and implement improved data collection processes and systems and data analysis models and program computer enhancements to provide more complete/accurate domestic shipper information, as well as, the origin/destination of the vessel movements in order to more accurately identify those moves subject to the HMT.	Funds will be used for international trade data system data integration
XX	LRD	RI	INLAND WATERWAY NAVIGATION CHARTS	\$4,500,000		\$4,500,000	Funds are being used to continue working with districts, USCG, and NOAA to provide high quality, accessible <u>navigation information to waterways users</u>	
XX	IWR	RI	INSPECTION OF COMPLETED WORKS (O&M REMAINING ITEM)	\$20,000,000		\$20,000,000	Funds are being used to inspect Federally constructed and locally maintained flood risk management projects with an emphasis on approximately 11,750 of Federally authorized and locally maintained levee systems. For each of these projects, the Department of the Army and the non-Federal sponsor have executed an agreement to identify the "items of local cooperation" for Corps projects, including operation and maintenance requirements necessary to ensure the project will function as intended, as well as preserve the value of the Federal investment. The inspections are used to identify deficiencies or areas which need monitoring or immediate repair; to identify any changes over time; and to collect information in order to be able to make informed decisions about future actions. Funds are also used to review updates to project operation and maintenance manuals.	
XX	IWR	RI	LEVEE SAFETY PROGRAM/NATIONAL (LEVEE) FLOOD INVENTORY	\$5,000,000		\$5,000,000	Funds are being used to operate and maintain the NLD, including updating the existing data to reflect the best available risk-based levee information, and implementing software revisions to improve functionality and usability based on user feedback. Operation and maintenance activities for the NLD include supporting NLD related tools such as the Levee Inventory System and Levee Screening Tool, including training for these tools. These funds will also be used to continue work with Federal agency partners, such as FEMA, on Federal voluntary levee safety best practices and guidelines and public awareness efforts.	
XX	ERDC	RI	MONITORING OF COMPLETED NAVIGATION PROJECTS	\$10,500,000		\$10,500,000	Funds are being used for monitoring existing structures; river information services; and structural health monitoring.	
XX	SAD	RI	NATIONAL COASTAL MAPPING PROGRAM	\$13,000,000		\$13,000,000	Funds are being used to commence NCMP survey operations on the U.S. Great Lakes shorelines. These survey operations will collect the third consecutive engineering and environmental dataset for the Great Lakes (2006-2008, 2011-2013, 2018-2020)	

ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE

XX	IWR	RI	NATIONAL DAM SAFETY PROGRAM	\$14,000,000		\$14,000,000	Funds are being used for 51 Periodic Assessments that are planned to be conducted, representing about 7% of the Corps dams. Funds are being used also be used for program and quality management, training to maintain Corps staff technical competency, policy and guidance development, consistency reviews on SQRA and PA reports, responses to and implementation of IEPR comments, data management, risk assessments, and technical and programmatic support for dam safety activities.
XX	HQ	RI	NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP)	\$5,500,000		\$5,500,000	Funds are being used to support Corps readiness to provide rapid response to disaster.
XX	HQ	RI	NATIONAL NATURAL RESOURCES MANAGEMENT ACTIVITIES	\$5,200,000		\$5,200,000	Funds are being used for national recreation program initiatives such as the funding of: the park ranger uniform contract; a dozen "Handshake" partnership; the Water Safety MCX and associated national programs; environmental compliance work; the printing and publishing of NRM materials; support to volunteer clearinghouse; and a variety of sustainability work efforts including more energy audits, ESPC work, power purchase agreements, and data management to support USACE Sustainability Plan development and Scorecard submission.
XX	IWR	RI	NATIONAL PORTFOLIO ASSESSMENT FOR REALLOCATION	\$500,000		\$500,000	Funds are being used to assess data and develop a consistent national approach to achieving consistent and sustainable water withdrawals (permanent reallocations and surplus water) including identification of status and challenges for USACE Reservoirs and to conduct initial assessments of pending reallocation requests.
XX	HQ	RI	PERFORMANCE BASED BUDGETING SUPPORT PROGRAM	\$2,000,000		\$2,000,000	Funds are being used for CEFMS modernization to provide automated capability to readily produce monthly/quarterly or annual execution and status of fund reports that will provide Public Law level detail data. Stakeholders will have access to modern enterprise financial reporting, data analytics and dashboards for management and transparency of Civil Works Programs and Projects.
XX	IWR	RI	RECREATION MANAGEMENT SUPPORT PROGRAM	\$1,550,000		\$1,550,000	Funds are being used to provide a nationwide funding source at HQUSACE for centralized procurement of these items used by all operating projects having a natural resources management program precludes the need for funds to be transferred by each project or district to a single procurement agent, a savings of from 60 to 300 transactions a year. Funding for these initiatives is sufficient to also cover the costs of the Recreation One-Stop Initiative, which was previously funded as a separate line item in the Budget.
XX	ERDC	RI	REGIONAL SEDIMENT MANAGEMENT DEMONSTRATION PROGRAM	\$3,500,000		\$3,500,000	Funds are being used to coordinate Regional Sediment Management (RSM) efforts nationally to improve the management and use of sediments across multiple projects to benefit a region in support of the Civil Works mission. Develop and enhance tools and technologies for implementing RSM approaches; Update RSM database and web-based viewer of USACE navigation projects which utilized RSM principles/Beneficial Use in placing sediments. Participate in regional and national initiatives to promote the RSM concepts and approach; and Document successes, challenges and lessons learned through technical reports.

**ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE**

XX	IWR	RI	REVIEW OF NON-FEDERAL ALTERATIONS OF USACE CIVIL WORKS PROJECTS	\$8,500,000		\$8,500,000	Funds are being used to enable the Corps to coordinate with the requester and review of the proposed alteration. Through Section 408 reviews, the Corps ensures that the alteration will not adversely impact the public interest and will not impair the usefulness of the authorized Corps project. The number of Section 408 requests in any year is dependent on many factors – primarily actions, schedules, and resources external to USACE. In its review of section 408 requests, the Corps considers a range of factors, such as the effects of the proposed alteration on the reduction of risk to life safety, the reduction of the risk of flood damages, the environment, the project’s ability to meet its other authorized purpose(s), and tribal considerations.	
XX	IWR	RI	STEWARDSHIP SUPPORT PROGRAM	\$900,000		\$900,000	Funds are being used to conduct focused management action studies and recommend guidance to address high priority program efficiency and effectiveness concerns, including responses to new protocols for asset and risk management, regulation changes, and administration priorities through the Stewardship Support Program (SSP). Efforts will continue in support of performance based budgeting, in monitoring program performance and risk analysis, and in development of strategies to improve program outputs and outcomes.	
XX	IWR	RI	SUSTAINABLE RIVERS PROGRAM (SRP)	\$400,000		\$400,000	Funds are being used to accomplish national and site work in accordance with the following SRP principles: 1) Build capacity within the water management community to implement environmental flows with little or no direct involvement of SRP resources; 2) Engage partners to focus on sustainability and avoid conflict, including Endangered Species Act (ESA) consultations; and 3) Advance innovative efforts to implement	
XX	MVD	RI	VETERAN'S CURATION PROGRAM AND COLLECTIONS MANAGEMENT	\$6,500,000		\$6,500,000	Funds are being used to implement the agency-wide long-term plan for the curation and collections management of Corps archeological collections through the Veterans Curation Program.	
XX	ERDC	RI	WATER OPERATIONS TECHNICAL SUPPORT (WOTS)	\$8,000,000		\$8,000,000	Funds are being used to provide effective environmental and water quality management technologies to address a wide range of issues at Corps reservoir and waterway projects, and in river systems nationwide. Funds are also used for research and development of Forecast Informed Reservoir Operations (FIRO), an effort investigating the feasibility of using predictive capabilities of atmospheric river events to inform reservoir operations at Corps dams in the Western United States.	
XX	IWR	RI	WATERBORNE COMMERCE STATISTICS	\$4,670,000	\$1,525,000	\$6,195,000	2 Funds are being used to perform operation, maintenance and necessary enhancements of the nation’s waterborne commerce, vessel and shipper data and statistics programs. Funds will also be used to increase project detail data requirements for budget submission and economic justification and to collaborate with partner agencies to improve navigation data from a Federal perspective including, acquiring and using software tools for program analysis, diagnostics and quality control.	Funds will be used for implementation of Waterborne Commerce Statistics System changes and additional capability for quarterly reporting
			1% SET ASIDE:			\$6,929,070		
			GRAND TOTAL:	\$3,046,593,000	\$692,907,000	\$3,739,500,000		

1/ All Statement of Managers amounts are subject to a 1% statutory deduction for emergency activities; that rescission has already been applied to the "Additional Funding".

2/ In accordance with the O&M appropriation title in the Energy and Water Development Appropriations Act, 2019, Division D, Title 1 of Public Law 115-244, one percent of each line item of additional funding

**ARMY CIVIL WORKS PROGRAM
FY 2019 WORK PLAN - OPERATION AND MAINTENANCE**

2/ KEY:	Funding Pot Name for "Additional Funding"	Additional Funding Allocation	Total Allocations	Unallocated Funding (for 1%)
1	NAVIGATION MAINTENANCE	\$23,907,000	\$23,667,930	\$239,070
2	NAVIGATION MAINTENANCE (DEEP-DRAFT HARBOR AND CHANNEL)	\$475,000,000	\$470,250,000	\$4,750,000
3	DONOR AND ENERGY TRANSFER PORTS	\$50,000,000	\$49,500,000	\$500,000
4	NAVIGATION MAINTENANCE (INLAND WATERWAYS)	\$40,000,000	\$39,600,000	\$400,000
5	NAVIGATION MAINTENANCE (SMALL, REMOTE, OR SUBSISTENCE NAVIGATION)	\$54,000,000	\$53,460,000	\$540,000
6	OTHER AUTHORIZED PROJECT PURPOSES	\$50,000,000	\$49,500,000	\$500,000
	TOTAL:	\$692,907,000	\$685,977,930	\$6,929,070

ENR	AQUATIC ECOSYSTEM RESTORATION
ENS	ENVIRONMENTAL STEWARDSHIP
FDRR	FLOOD DAMAGE REDUCTION RIVERINE
FDRC	FLOOD DAMAGE REDUCTION COASTAL
FOTH	FLOOD DAMAGE REDUCTION OTHER
HYD	HYDROPOWER
JOINT	JOINT
NHS	COASTAL NAVIGATION SHALLOW DRAFT
NHD	DEEP DRAFT NAVIGATION COASTAL
NIH	INLAND WATERWAYS HIGH USE
NIL	INLAND WATERWAYS LOW USE
NOTH	NAVIGATION OTHER
REC	RECREATION
RI	REMAINING ITEM
WTR	WATER SUPPLY