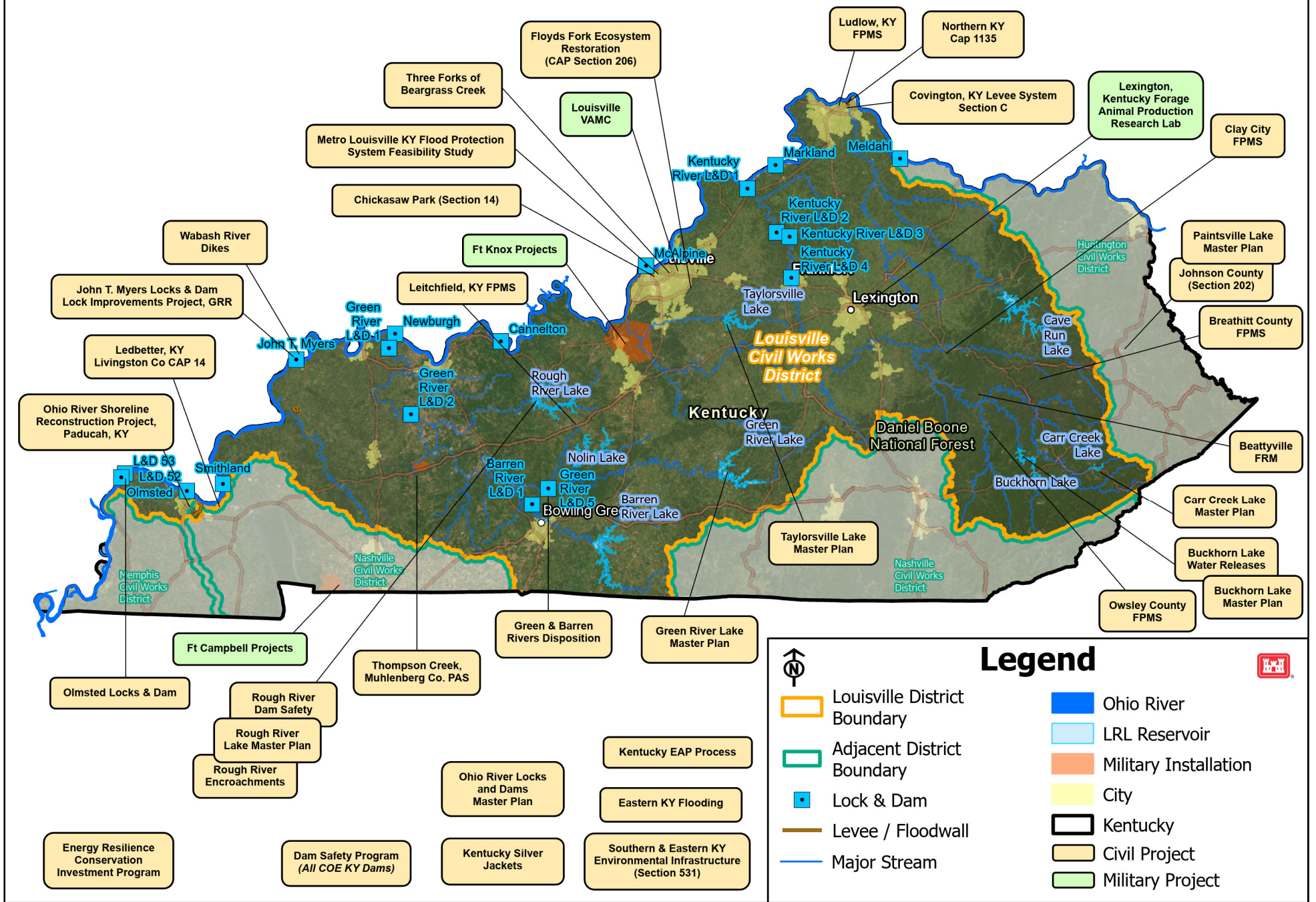


STATE OF KENTUCKY



Wabash River Dikes



Project Area

Current Phase:

Construction

Location and Description:

The project area is located in the Ohio River near the confluence with the Wabash River along the Illinois and Kentucky banks.

The FY19 Supplemental (O&M) Bill authorized \$26M for the design and construction of river dikes in the Ohio River near the confluence of the Wabash River. In 2008, the Wabash River cut-through reduced the river by 13 miles. This has resulted an annual dredging of the Ohio River near the mouth of the Wabash River at a cost of \$1.5M (2016 dollars) annually. Prior to 2008 (1932-2007), the average annual dredging cost was only \$86K (2016 dollars). Construction of the river dikes will reduce the amount of dredging needed in this area.

Authorization:

P.L. 116-20

Sponsor:

N/A

Summarized Financial Data:

Estimated Federal Cost	\$26,000,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$26,000,000
Allocation thru FY23 (Federal)	\$9,815,104
Balance to complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY23 Activities:

The Project Delivery Team addressed real estate issues relating to an easement with the Natural Resource Conservation Service (NRCS). A full Notice-to-Proceed (NTP) was issued to the contractor. Construction was initiated.

FY24 Planned Activities:

The current scheduled completion date for construction is the 2nd Quarter of FY24. Close-out the project.

Issues and Other Information:

The construction contract amount was significantly lower than the estimated federal cost resulting in a savings to the Government.

Congressional Interest:

SEN Todd Young (IN)
 SEN Mike Braun (IN)
 SEN Mitch McConnell (KY)
 SEN Rand Paul (KY)
 SEN Richard J. Durbin (IL)
 SEN Tammy Duckworth (IL)
 REP Larry Bucshon (IN-08)
 REP James Comer (KY-01)
 REP Mary Miller (IL-15)

John T. Myers Locks and Dam, IN and KY



J. T. Myers 600' Lock Extension

Current Phase: Construction

Location and Description:

The project is located on the right bank of the Ohio River at river mile 846.0 approximately 3.5 miles downstream of Uniontown, KY, with the lock chambers towards the Indiana shore.

The John T. Myers Lock Extension Project will extend the existing 600-foot long auxiliary lock chamber to a 1,200-foot long lock chamber. This effort will give the navigation facility twin 1,200-foot locks for inland navigation tow traffic. This additional lock capacity will enable the facility, in operation since 1969, to manage tow traffic during planned and unscheduled main lock closures without significant delays to inland navigation. Many contracts are required to design and construct the project. Preconstruction, Engineering and Design (PED) efforts since 2000 have included hydraulic model studies and engineering analysis and foundation explorations towards preparation of project plans and specifications.

Authorization:

Water Resources Development Act (WRDA) 2000, Public Law 106-541

FY23 Activities:

No activities were completed in FY23 since no Federal funds were received.

FY24 Planned Activities:

If FY24 funds are received, they would be used to initiate a General Reevaluation Report (GRR) to evaluate the cost and economics of the current approved plan.

Issues and Other Information:

In September 2004, the Corps awarded the first site preparation contract for construction of an Operations

Summarized Financial Data:

	<u>Construction</u>
Estimated Federal Cost	\$226,561,000
Estimated Non-Federal Cost	\$216,239,000
Total Estimated Project Cost	\$442,800,000
Allocation thru FY23 1/	\$19,456,946
Balance to Complete After FY23	\$423,343,054
FY24 Capability (FED)	\$400,000
FY25 President's Budget	TBD

1/ Includes funds (\$10,110,000) provided by the American Recovery and Reinvestment Act of 2009 (ARRA), Public Law 111-5, which are not cost shared with IWTF appropriations.

Support Facility. Those construction activities were completed in late 2005. The remaining site preparation contracts will include: a) excavation of the river bank to widen the upper lock approach; b) construction of a Resident Engineer's building; c) miter gate storage area, with spare gate; and d) implementation of aquatic mitigation. Based upon physical modeling, it is necessary to widen the upper approach area for downbound entry of commercial towing vessels into the extended auxiliary lock chamber. The spare miter gate will allow the Corps to expedite both scheduled maintenance activities and emergency repairs to the existing lock miter gates. Environmental mitigation will involve installation of a series of in-water features, over three consecutive summer and fall low water seasons, to enhance aquatic habitat in the nearby vicinity of the project. Upon receipt of additional funding the District would proceed towards award of the remaining contracts. The District plans to award two contracts to construct the lock extension and its new approach walls.

The Corps of Engineers has suspended design of the project until receipt of additional funds. The American Recovery and Reinvestment Act of 2009 provided the Corps of Engineers with funding to award the contracts for construction of the upper lock approach widening and Resident Engineer's building. The approach widening contract was awarded on December 17, 2009 and was substantially complete in July 2012. The Resident Engineer's Building was awarded on March 31, 2010, and was substantially complete in December 2011.

Construction of the remaining work will be accomplished by award of both fully and incrementally-funded contracts. The schedule will be developed upon receipt of additional funds.

The John T. Myers project passes the highest tonnage of all the Ohio River high lift locks with a 600-foot auxiliary chamber. Approximately 73 million tons of commodities were shipped through the J. T. Myers locks in 2010. The project authorization was a product of the Ohio River Mainstem Systems Study, which used a regional systems approach to address the investments needed to provide an efficient navigation system on the

Ohio River Mainstem through 2060. This project represents a reinvestment in the river transportation infrastructure.

Congressional Interests:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
SEN Todd Young (IN)
SEN Mike Braun (IN)
SEN Richard J. Durbin (IL)
SEN Tammy Duckworth (IL)
REP Mary Miller (IL-15)
REP Larry Bucshon (IN-8)
REP James Comer (KY-1)

**City of Ledbetter, Livingston County,
Kentucky Emergency Streambank
Stabilization (CAP Section 14)**



Current Phase:

Design and Implementation (D&I)

Location and Description:

The project is located within the corporate city limits of Ledbetter in Livingston County, Kentucky along Riverside Drive.

The Feasibility Phase was completed in FY22 at full Federal expense and recommended approximately 160 feet of shoreline stabilization on the Ohio River near Riverside Drive. The principal cause of the erosion at this location is scouring of the bank due to the high velocities that concentrate along the left bank of the river during high flow conditions.

Authorization:

Section 14 of the 1946 Flood Control Act, as amended.

Sponsor: Livingston County, Kentucky

Summarized Financial Data:

	<u>(D&I)</u>
Estimated Federal Cost	\$562,900
Estimated Non-Federal Cost	\$303,100
Total Estimated Project Cost	\$866,000
Allocation thru FY23 (Federal)	\$239,308
Balance to Complete after FY23	\$323,592
FY24 Capability (FED)	\$323,592
FY25 President's Budget	N/A

FY23 Activities:

The Project Delivery Team initiated design of the recommended plan (riprap on the bank) to address the erosion issue. Draft plans and specifications were completed.

FY24 Planned Activities:

Finalize plans and specifications. Real estate acquisition. Advertise and award a construction contract once the real estate is acquired. Award of the contract will occur in late FY24 or in FY25 depending on the length of time needed for real estate acquisition.

Issues and Other Information:

Geotechnical drillings and lab results took longer than expected and delayed start of design approximately one to two months.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP James Comer (KY-1)

Ohio River Shoreline, Paducah, KY Reconstruction Project



Pump Station #2 pipes and pumps supported by scaffolding.

Current Phase:

Construction

Location and Description:

The Paducah, Kentucky Local Flood Protection Project is located in McCracken County, Kentucky, on the left bank of the Ohio River, 934.4 miles below Pittsburgh, Pennsylvania.

The project consists of rehabilitation work to the existing floodwall/levee, which will involve repair/replacement of aging pumping station equipment, corrugated metal pipes, concrete, and other appurtenant features.

Authorization:

Section 5077 of the Water Resources Development Act (WRDA) of 2007, Public Law 110-114; Section 7002 of the Water Resources Reform and Development Act (WRRDA) 2014; and Section 1401 of the Water Infrastructure Improvement (WIIN) Act of 2016, Public Law 114-322

Sponsor:

City of Paducah, Kentucky

FY 23 Activities:

The Louisville District continued work on rehabilitating pump stations on both the Phase I and Phase II contracts. Project completion was delayed due to delays in the manufacturing of the pumps.

Summarized Financial Data:

Estimated Federal Cost	\$24,247,473
Estimated Non-Federal Cost	\$13,056,332
Total Estimated Project Cost	\$37,303,805
Allocation thru FY23 (Federal)	\$24,309,900
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY 24 Planned Activities:

Construction will continue and both Phase I and Phase II are scheduled to be completed in FY24. Continue to review and certify Work In-Kind submitted by the local sponsor.

Issues and Other Information: The Paducah, Kentucky Local Flood Protection Project was removed from the Rehabilitation Inspection Program under Public Law 84-99 in the Fall of 2007 because of corroded metal drainage pipes. The City of Paducah risked FEMA decertification of their local flood protection project if they did not quickly repair the corroded metal pipes that drain normal storm water runoff through the earthen levee and into the river. Failure of those drainage pipes could cause interior flooding or breach the earthen levee, and thus threaten the local population and damage properties. The City completed repair of the pipes and was recertified in the Rehabilitation Inspection Program in January 2010. Section 5077 of WRDA 2007 provided authority for the project and contained language indicating that the "Secretary shall complete a feasibility report" and, if feasible, "carry out the project at a total cost of \$3,000,000." Section 2003 of WRDA 2007 provides non-Federal interests may receive in-kind credit for costs of planning, design, management, mitigation, construction, and construction services. After the District executed the PPA in July 2017, these Work In-Kind (WIK) costs were credited towards the sponsor's contribution of matching funds.

Congressional Interests:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP James Comer (KY-1)

Locks and Dam 52 and 53 Replacement Project (Olmsted Locks and Dam), IL and KY



Project Area

Current Phase:

Construction

Location and Description:

The project consists of two 110' X 1200' locks adjacent to the Illinois bank, and a dam comprised of five Tainter gates, 1400' of boat-operated wickets and a fixed weir. The proposed replacement structure will eliminate Ohio River Locks & Dams 52 & 53. Locks & Dams 52 & 53 were completed in 1929 and the temporary 1,200' long lock chambers were added in 1969 at Locks & Dam 52 and 1979 at Locks & Dam 53. The antiquated design and age of these structures make it impossible to meet current traffic demands without significant delays. The existing structures have deteriorated structurally and are overstressed during normal operating conditions. Existing wicket dam has missing sections and wickets that will not raise making it very difficult to maintain pool during low water. The temporary locks at Locks & Dam 52 & 53 have significantly passed their 15-year design life.

This strategic reach of the Ohio River provides a connection between the Mississippi River, Tennessee River and Cumberland River. More tonnage passes this point than any other place in America's inland navigation system. In 2011, 91 million tons (Locks & Dam 52), traversed this portion of the Ohio River. 25% of all coal shipped on the inland waterways transits Locks & Dam 52, destined for many of the 50 power plants located on the Ohio River System or the 17 power plants located in eight states on the Upper or Lower Mississippi River.

Authorization:

The Olmsted Locks & Dam project was authorized by Section 3(a)(6) of the Water Resources Development Act (WRDA) of 1988. The authorized project cost was increased on 17 October 2013 as part of a Continuing

Summarized Financial Data:

Authorized Total Project Cost	\$2,867,296,000
Estimated Federal Cost	\$1,856,981,000
Estimated Inland Waterways Trust Fund	\$1,010,315,000
Funding received to date:	\$2,853,403,115

Appropriations Act, 2014 to \$2,918,000,000. The project was funded 50%/50% from the General Treasury and the Inland Waterways Trust Fund (IWTF) through FY2013. The FY2014 Omnibus Appropriation Act changed the split of IWTF and General Treasury funds to 25%/75% for FY2014 only. Water Resources Reform and Development Act of 2014 changed the IWTF and General Treasury shares to 15%/85% beginning 1 Oct 2014.

Sponsor: Inland Waterways Trust Fund

Status:

Olmsted was put into service on 6 Sep 2018 ahead of the scheduled 1 Oct 2018 date, and 4 years ahead of the PACR milestone, to mitigate significant economic exposure to industry stakeholders given the failing condition of Locks & Dams 52 & 53. This early operational date and subsequent unseasonable extended high-water event impacted completion of several critical items of the dam to include isolation piles and shell patching. An additional \$63M was received through the FY20 Work Plan for project delays due to the high-water impact to the cost-reimbursement contract extension and procurement of remaining work. LRL continues to actively work towards completion of remaining work and to complete the project ahead of the Cost Scheduled Risk Analysis date of 2026. The Dam contract is now complete and the contractor has demobilized from the site.

FY24 Planned Activities:

The evaluation of a trench cleaning design is underway to develop a diver-less process to clean sediment and debris from the wicket trench. The evaluation of proposals is scheduled for the 1st Quarter of FY24. A contract for the development of a design is planned to be awarded with a follow-on construction contract to build and implement the diver-less trench cleaning process. All activities are scheduled to be complete in FY26.

Issues and Other Information:

The project has four pending REAs that are being evaluated.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)

Fort Campbell, KY



Location and Description:

Fort Campbell is a power projection platform and a major maneuver installation for the Army. It is also the home of the Army's most-deployed contingency forces.

Strategically located on the KY/TN State line, the installation has the unique ability to deploy mission-ready contingency forces by air, rail, highway and inland waterway. US Army Garrison (Fort Campbell) mission is to support expeditionary forces by providing equitable & efficient services that sustain Fort Campbell and enhance the well-being of the military community. According to latest Army projections, Fort Campbell will continue to support a large military population (comprising around 27,058 Active Component Soldiers) in the foreseeable future. Major units located at Fort Campbell include:

- 101st Airborne Division (Air Assault)
- 5th Special Forces Group (Airborne)
- 160th Special Aviation Operations Regiment
- 52nd Ordnance Group (EOD)
- Army Field Support BN - Campbell
- US Army Medical Command
- 531st Hospital Center
- US Army Garrison Fort Campbell

Authorization:

Military Construction, Army

Minor Construction, Army

Operation and Maintenance, Army

FY24 Activities:

Design, procurement, and construction management activities. Including:

- 5 MILCON projects (Communication Facility, Operation & Mission Planning Center, Child Development Center, FY26&27 Barracks)
- 2 Minor MILCON project (Bldg Renovation, Consolidated Housing Furniture Storage Facility)
- 4 O&M Projects (Renovations, Swing Space, Repair Taxiway, Rectifier Replacement)

FY25 Planned Activities:

Design, procurement, and construction management activities and continued support of new projects.

Issues and Other Information:

NSTR

Summarized Financial Data:

Estimated Federal Cost

Construction

\$251,737,100

Congressional Interest:

Sen. Mitch McConnell (KY)

Sen. Rand Paul (KY)

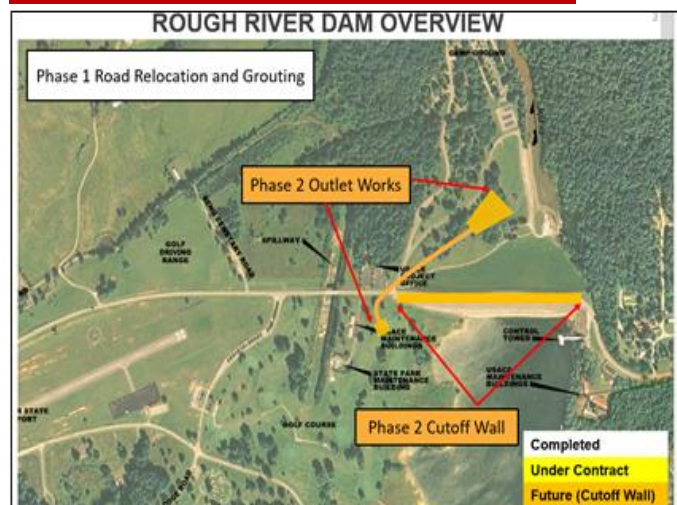
Sen. Marsha Blackburn (TN)

Sen. Bill Hagerty (TN)

Rep. James Comer (KY)

Rep. Mark Green (TN)

Rough River Dam Safety Modification



Overver of Rough River Dam Safety Modification Project

Current Phase:

Design and Construction

Location and Description:

The dam site is located on Rough River, 89.3 miles east of the confluence with the Green River. The project consists of two phases of rehabilitation work to the dam foundation to eliminate seepage concerns. The first phase of construction consisted of grouting of the bedrock foundation. The first construction contract (Phase 1A) was awarded in March 2014 and completed in September 2015. This contract relocated KY State Hwy 79, which crosses the dam, to the upstream slope of the dam. The exploratory drilling and grouting contract (Phase 1B) was awarded in April 2015 to Advanced Construction Techniques, Inc. and was physically completed in May 2017. Based on the conditions encountered, a decision was made to proceed to Phase 2, which involves a deep concrete cutoff wall through the embankment and into the foundation rock. The dam is currently classified as a Dam Safety Action Classification (DSAC) 2.

Authorization:

Flood Control Act (Public Law 761, 75th Congress, 28 June 1938)

FY23 Activities:

In FY23 an updated Risk Assessment was completed that resulted in classification of the project as DSAC 2 and the implementation of additional Interim Risk Reduction Measures (IRRM). The most significant of the IRRMs that was implemented was a pool restriction that delayed the start of the Spring fill by 2 weeks and lowered the targeted Summer pool by 5 feet to elevation 490. Additional IRRMs that have been completed or are on-going include additional stockpiling of materials, increased risk communication, and others.

Summarized Financial Data:

<u>Design & Construction</u>	
Estimated Federal Cost	\$518,713,000*
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$518,713,000*
Allocation thru FY23	\$117,414,000
Balance to Complete after FY23	\$401,299,000
FY24 Capability (FED)	\$360,000,000
FY25 President's Budget	TBD

*The Cost Estimate was certified in February 2023. A Business Case requesting approval of an Incremental Funding Clause has been submitted. If approved, the capabilities for future years will be adjusted.

FY24 Planned Activities:

The project design is complete. Additional funds are needed to advertise and award the contract. Once it is determined that additional funds will be available, the Plans and Specifications will need to undergo an updated BCOES certification and the package will be prepared for advertisement. These activities can be completed in FY24 with funds currently on hand.

Issues and Other Information:

USACE completed a DSMR in July 2012. The DSMR addressed unacceptable risk due to foundation conditions that can be found when a dam is constructed on karst geology (solutioned limestone). The report recommended major rehabilitation to ensure the structure's integrity and lower the project's risk. As a result of the first phase of construction, the Dam Safety Action Classification (DSAC) was changed from DSAC 2 to DSAC 3. Due to on-going evaluation of the project instrumentation since that time it was decided to update the risk assessment, which was completed in FY23. The updated risk assessment resulted in classification as a DSAC 2 and the implementation of additional IRRMs, including a pool restriction. While the dam is currently operating as intended and there is no emergency or imminent threat, failure of the dam would result in catastrophic effects downstream, including potential loss of life and significant economic losses.

Changes to lake operations during construction that would impact normal public use will be minimized as much as possible. However, at some point during the construction it may be necessary to temporarily revise the target pool elevations to ensure the safety of the project. USACE will be responsible for communicating project status with coordination from local, state, and federal agencies and other stakeholders. Rough River Lake staff will aid in future public awareness campaigns. After the construction, the surface of the dam will be restored, and its appearance will look much as it does currently.

Congressional Interest:

SEN Mitch McConnell
SEN Rand Paul
REP Brett Guthrie (KY-2)

Rough River Lake, Kentucky Master Plan Update



Rough River Lake Dam – Falls of Rough, Kentucky

Current Phase:

Master Plan Update

Location and Description:

Rough River Lake is situated in Breckinridge, Hardin, and Grayson counties in south central Kentucky. The dam is located on the Rough River near the community of Falls of Rough, about 20 miles from Leitchfield, Kentucky and 95 miles southwest of Louisville, Kentucky.

The Louisville District, Corps of Engineers designed, constructed, and operates the project to reduce flood damages downstream from the dam. The Corps, in cooperation with the Commonwealth of Kentucky, manages the 5,100-acre lake and over 9,300-acres in-fee land for wildlife, fisheries, and recreation.

Summarized Financial Data:

Estimated Federal Cost	\$262,350
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$262,350
Allocation thru FY23 (Federal)	\$262,350
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Authorization:

Flood Control Act approved 28 June 1938 (Public Law No. 761, 75th Congress, 3rd Session)

FY23 Activities

The District completed the final draft Master Plan and integrated Environmental Assessment (EA), including final public and stakeholder reviews.

FY24 Planned Activities:

Final District Quality Control and leadership reviews/signatures will complete the Master Plan in the 1st Quarter of FY24.

Issues and Other Information:

None

Congressional Interest:

Sen. Mitch McConnell (KY)
Sen. Rand Paul (KY)
Rep. James Comer (KY-1)
Rep Brett Guthrie (KY-2)

Rough River Lake, KY Flowage Easement Encroachment Resolution



Current Phase:

Processing landowner resolution requests.

Location and Description:

Rough River Lake is located in rural Breckinridge, Grayson, and Hardin counties, Kentucky. The United States of America purchased 318 miles of flowage easement surrounding Rough River Lake. The flowage easement grants the Corps of Engineers a perpetual right to overflow, flood, and submerge the easement area, consistent with project operations, and prohibit habitable structures from being constructed. Rough River is surrounded by over 151 residential developments and there is an estimated 375 existing habitable structure encroachments located on flowage easement. The project consists of releasing the flowage easement or human habitation restriction, if certain requirements are met, to resolve these encroachments.

Authorization:

Rough River Lake Flowage Easement Encroachment Resolution Plan, approved 3 Jan 2017

Memorandum, ASA-CW, dated 3 Jan 2017, Subject: Rough River Lake Flowage Easement Encroachment Resolution Plan

Memorandum, ASA-CW, dated 20 June 2019, Subject: Additional Guidance for Rough River Lake Flowage Easement Encroachment Resolution

Memorandum, ASA-CW, dated 23 Sep 2021, Subject: Implementation Guidance for Section 328 of the Water Resources Development Act (WRDA) of 2020, Extinguishment of Flowage Easements, Rough River Lake, Kentucky

Prior Activities:

The America's Water Infrastructure Act of 2018 (Public Law 115-270), Title I, Subtitle A, Section 1175 prohibited the Corps of Engineers from collecting from eligible property owners any administrative fee associated with resolving a

flowage easement encroachment at Rough River Lake. All administrative fees collected have been refunded. Property owners are still required to obtain at their expense a private-property survey and septic inspection.

The Water Resources Development Act of 2020 (Public Law 116-260), Title III, Section 328 requires the extinguishment of any flowage easement or portion of flowage easement held by the United States on developed land of the landowner at Rough River Lake that is above elevation 534' m.s.l. and is not required to address backwater effects. Additionally, \$10M was authorized to implement guidance.

The Assistant Secretary of the Army, Civil Works (ASA(CW)) authorized the Corps to release the flowage easement over the entire tract above elevation 534' m.s.l. (Scenario A properties). In addition, the ASA (CW) authorized the Corps to release the flowage easement on vacant lands above elevation 534' m.s.l. that are encumbered by flowage easement.

FY 24 Planned Activities:

The Project Delivery Team will continue to process resolution requests. It is estimated 50 encroachments will be resolved per year. Estimate 10-20 years to resolve all encroachments.

For Scenario A and vacant land, dispose flowage easement on the tract above elevation 534' m.s.l. to the underlying landowner, upon their request, as long as the property is not required to address backwater effects.

For Scenarios B and C, if the requirements for the release of human habitation restriction can be met, execute a release on the portion of the structure below the 534' m.s.l. If requirements for the release of human habitation restriction cannot be met, enforce the terms of the easement by requiring removal of the entire or portion of the structure below 534' m.s.l. where practical.

To date, there is an estimated total of 375 unresolved encroachments (242-Scenario A; 89-Scenario B; 44-Scenario C). A total of 267 encroachments have been resolved (189-Scenario A, 47-Scenario B, 31-Scenario C). Quitclaim Deeds have been executed for 31 vacant properties.

Summarized Financial Data:

Allocation thru FY23	\$3,930,300
FY24 Pres Budget (WP352683)	\$529,650
FY25 Pres Budget	TBD

Congressional Interests:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Brett Guthrie (KY-2)

Thompson Creek, Kentucky Flood Plain Management Services



2001 Flooding in Graham, Kentucky

Current Phase:

Study

Location and Description:

Thompson Creek is located in Muhlenberg County, approximately nine miles north of Hopkinsville, KY in western Kentucky. This study will focus on flooding in and around Graham, Kentucky in Muhlenberg County from Thompson Creek to the Pond River. Graham, KY and the surrounding areas experience periodic Spring flooding, with the most recent flood event occurring in 2022. This study will examine the basic hydrology of the watershed and refine channel hydraulics in order to determine the discharges of various design frequency flood events.

Authorization:

The Flood Plain Management Services (FPMS) Program is authorized by Section 206 of the 1960 Flood Control Act (Public Law 86-645), as amended.

Sponsor:

Muhlenberg County, Kentucky

FY 23 Activities:

The Project Delivery Team (PDT) drafted the Project Management Plan, surveyed the project area's existing conditions, and performed modeling on existing conditions and various alternatives related to flood risk management.

Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$150,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$150,000
Allocation thru FY23 (Federal)	\$150,000
Balance to Complete After FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY 24 Planned Activities:

The PDT will review and finalize the report. The report will be provided to the Non-Federal Sponsor. Close-out the project.

Issues and Other Information:

None.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Brett Guthrie (KY-02)

Green River Lake, Kentucky Master Plan Update



Green River Lake Dam – Campbellsville, Kentucky

Current Phase:

Master Plan Update

Location and Description:

Green River Lake is situated in Adair and Taylor counties, lying amidst rolling terrain, steep bluffs, and flowing streams in the section of Kentucky known as the Highland Rim. The dam, located on the Green River, is an 11-mile drive from the cities of Campbellsville, KY and Columbia, KY, and less than 100 miles from Louisville and Lexington, Kentucky.

The U.S. Army Corps of Engineers started construction in April 1964, and the lake was completed in June 1969. The project consists of 25,585 total acres (23,968-fee and 1,616-flowage easement). In addition to the Flood Risk Management mission, there is an extensive recreation and environmental stewardship program.

Summarized Financial Data:

Estimated Federal Cost	\$262,350
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$262,350
Allocation thru FY23 (Federal)	\$262,350
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Authorization:

Flood Control Act approved 28 June 1938 (Public Law No. 761, 75th Congress, 3rd Session)

FY23 Activities:

The District completed the draft Master Plan and integrated Environmental Assessment. Stakeholder and general public reviews were initiated.

FY24 Planned Activities:

Completion of stakeholder and public review. Anticipate that final District Quality Control and leadership reviews/signatures will complete the Master Plan in the first quarter of FY24.

Issues and Other Information:

None

Congressional Interest:

Sen. Mitch McConnell (KY)
Sen. Rand Paul (KY)
Rep. James Comer (KY-1)

Taylorsville Lake, Kentucky Master Plan Update



Taylorsville Lake Dam – Taylorsville, KY

Current Phase:

Master Plan Update

Location and Description:

Taylorsville Lake is located within Spencer, Nelson, and Anderson Counties, KY, on the Salt River beginning at River Mile 78, about five miles west of Glensboro, KY, and extends downstream to the dam at River Mile 60. The lake is 18 miles long. The dam is located about 20 miles from Exit 23 on the Gene Snyder in Louisville, KY and about 50 miles southwest of Lexington, KY.

The Louisville District, Corps of Engineers designed, constructed, and operates the 3,050 acres of water at Taylorsville Lake for flood control, quality water storage, outdoor recreation, and fish and wildlife preservation and enhancement. The Master Plan update will provide guidance for the preservation, conservation, restoration, maintenance, management, and development of project lands, waters, and associated resources located at Taylorsville Lake.

Authorization:

Flood Control Act approved 28 June 1938 (Public Law No. 761, 75th Congress, 3rd Session)

FY23 Activities

The Louisville District completed the Master Plan and Environmental Assessment update.

Summarized Financial Data:

	<u>Master Plan</u>
Estimated Federal Cost	\$262,350
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$262,350
Allocation thru FY23 (Federal)	\$262,350
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY24 Planned Activities:

Copies of the completed Master Plan will be distributed.

Issues and Other Information:

None

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Brett Guthrie (KY-2)
REP Thomas Massie (KY-4)
REP Andy Barr (KY-6)

Green River Locks and Dams 3, 4, 5 & 6 and Barren River Lock and Dam 1 Disposal



Green River Lock and Dam 3 (Rochester, Kentucky)

Current Phase: Disposal

Location and Description:

Five locks and dams on the Green and Barren Rivers in south-central Kentucky are no longer used for their original authorized purpose of commercial navigation. The Louisville District completed a Disposition Study in 2014 to evaluate the formerly used navigation facilities and to make recommendations regarding the possible deauthorization and/or disposal of the facilities.

All five projects were deauthorized in the 2016 Water Resources and Infrastructure Improvements to the Nation (WIIN) Act which included language directing disposal to identified recipients.

Section 1311 of the Water Resources Development Act (WRDA) 2018 clarified that Green River Lock & Dam 5 and Barren River Lock & Dam 1 may be removed under USACE ownership and that contributed funds could be used to accomplish the removal.

Statutory compliance with Section 106 of the National Historic Preservation Act and Section 7 of the Endangered Species Act are required prior to disposal.

Authorization:

Section 1315 of the Water Infrastructure Improvements for the Nation Act (WIIN) of 2016.

Section 1311 of the Water Resources Development Act (WRDA) 2018.

<u>Summarized Financial Data:</u>	<u>Disposal</u>
Estimated Federal Cost	\$285,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$285,000
Allocation thru FY23 (Federal)	\$285,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	TBD

FY23 Activities:

The Louisville District continued partnerships with the working group, completed the Section 106 coordination for all locks and dams, and continued working on a solution for the Edmonson County Water District (ECWD) intake located within the pool of Green River Lock and Dam 5. The District completed the deeds and disposal reports for the conveyance of Green River Lock and Dam 6 and Barren River Lock and Dam 1.

FY24 Planned Activities:

The District has finalized disposal packages for Green River Lock & Dam 6 (going to Kentucky Department of Fish and Wildlife Resources and The National Park Service) and Barren River Lock & Dam 1 (going to the Kentucky Department of Fish and Wildlife Resources) and intends to submit them to HQUSACE for deed review. The District has identified temporary work packages to minimize identified safety hazards at Green River Lock & Dam 4 to allow for the disposal to Butler County. In addition, the District is currently working with U.S. Fish and Wildlife Resources to potentially remove the remaining portions of the dam and other improvements within the river. Green River Lock and Dam 5 is currently in a paused status until a viable solution for the Edmonson County Water District has been identified.

Issues and Other Information:

Regional low water coinciding with the removal of Green River Lock and Dam 5 delayed the complete removal of Green River Lock and Dam 5 when ECWD became alarmed at water levels and the potential impact to their intake located on the Green River. The Nature Conservancy (TNC) is contracted with Kimley-Horn Engineering to assist in identifying potential alternatives for the ECWD. Once a viable solution is developed and funding identified, removal efforts will resume.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Brett Guthrie (KY-2)
REP James Comer (KY-1)

Owsley County, Kentucky Flood Plain Management Services (FPMS)



30-East Bridge, Booneville, Owsley County, Kentucky

Current Phase:

Study

Location and Description:

Owsley County is in the Eastern Coalfield region of Kentucky. The county population is approximately 4,051. Owsley County experiences periodic flooding, with the most recent damaging floods occurring in the Spring of 2021. Dozens of homes and businesses were damaged.

This Flood Plain Management Services (FPMS) study will develop and refine a hydraulic model using HEC-RAS to determine floodplain extents at various stream/river stages. It will also look at various alternatives to reduce flood risk along the South Fork of the Kentucky River, including an analysis of the 30-East bridge in Booneville, Kentucky, which local officials believe contributed to flooding in 2009 and 2021. All alternatives, data analysis, and details of plan formulation will be provided through a report to the Non-Federal Sponsor.

Authorization:

Section 206 of the 1960 Flood Control Act (Public Law 86-645), as amended.

Sponsor:

Town of Booneville, Kentucky

Summarized Financial Data:

Estimated Federal Cost	\$130,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$130,000
Allocation thru FY23 (Federal)	\$130,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Study

FY23 Activities:

Louisville District held a kickoff meeting in January 2023. Modeling work and development of the final report were initiated.

FY24 Planned Activities:

Complete the final report and provide it to the Non-Federal Sponsor. Close-out the project.

Issues and Other Information:

No issues at this time.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Harold (Hal) Rogers (KY-5)

Buckhorn Lake, Kentucky Master Plan Update



Buckhorn Lake Dam

Current Phase:

Master Plan Update

Location and Description:

Buckhorn Lake is situated in Leslie and Perry counties on the Middle Fork of the Kentucky River in the foothills of the Cumberland Plateau, offering the scenic beauty of the Appalachian Mountain Range. The dam is located near the small community of Buckhorn, Kentucky, about 100 miles southeast of Lexington, KY and 30 miles west of Hazard, KY.

The Louisville District, Corps of Engineers designed, constructed, and operates the project to reduce flood damages downstream from the dam. The lake also provides water supply and serves to augment low-flow conditions downstream in the interest of water quality control. In addition, the lake provides varied recreational opportunities.

The Master Plan update will provide guidance for the preservation, conservation, restoration, maintenance, management, and development of project lands, waters and associated resources located at Buckhorn Lake.

Summarized Financial Data:

	<u>Master Plan</u>
Estimated Federal Cost	\$262,350
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$262,350
Allocation thru FY23 (Federal)	\$262,350
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Authorization:

Flood Control Act approved 28 June 1938 (Public Law No. 761, 75th Congress, 3rd Session)

FY23 Activities:

The Louisville District completed the Master Plan and integrated Environmental Assessment update, including internal reviews and a 30-day public review.

FY24 Planned Activities:

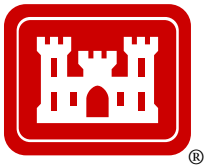
Adoption of the updated Master Plan is pending final Louisville District leadership review and signatures. Print and distribute copies of the final updated Master Plan.

Issues and Other Information:

None

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
Rep. Harold (Hal) Rogers (KY-05)



Buckhorn Lake, Kentucky – Winter Pool Elevation Raise

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

AUTHORIZATION: Flood Control Act of 1938 (Public Law 761, 75th Congress)

PROJECT SPONSOR: Kentucky River Area Development District

LOCATION: Buckhorn, Kentucky



Buckhorn Lake – Buckhorn, Kentucky

Congressional Member Interest	Key Stakeholder Interest
SEN Mitch McConnell (KY)	Kentucky River Area Development District
SEN Rand Paul (KY)	
REP Harold (Hal) Rogers (KY-5)	

PROJECT DESCRIPTION AND BACKGROUND: Buckhorn Lake, Kentucky was authorized by the Flood Control Act of 1938 (Public Law 761, 75th Congress). The 1,230-acre lake is located in Leslie and Perry counties, in the mountainous region of southeastern Kentucky, about 15 miles northwest of Hazard, Kentucky and 18 miles from Whitesburg, Kentucky. The dam site is located 43.3 miles above the mouth of the Middle Fork of the Kentucky River and 0.5 miles upstream of Buckhorn, Kentucky. The lake operates as a unit of the general plan for the Ohio River Basin to impact reductions in flood stages at all points downstream from the lake. The area receiving the most protection is the valley of the Middle Fork of the Kentucky River below the dam. Additional project purposes are water quality and recreation.

As of: 03/28/2023

U.S. Army Corps of Engineers – Great Lakes and Ohio River Division
600 Dr. Martin Luther King Jr. Place Louisville, KY 40202
<http://www.lrd.usace.army.mil>

BUDGET INFORMATION:

Authorized Total Project Cost	TBD
Non-Federal Sponsor Cost	TBD
Federal Cost	TBD
Funding Received to Date	\$0

CURRENT STATUS: The Louisville District received a request from the Kentucky River Area Development District to study and assess raising Buckhorn Lake's winter pool elevation by 10 feet. This request was submitted in 2003. The Kentucky River Area Development District believes that increasing the winter pool elevation by 10 feet would greatly increase tourism and recreation use at the project site. This study would examine the impacts (structural, functional, and environmental) on all other project features at Buckhorn Lake if the winter pool elevation were increased by 10 feet.

FY22 Activities: Funds were not available.

Project POC:

John Bock

Deputy District Engineer

john.r.bock@usace.army.mil

(502) 315-6104

As of: 03/28/2023

Carr Creek Lake, Kentucky Master Plan Update



Carr Creek Lake Dam – Sassafras, Kentucky

Current Phase:

Master Plan Update

Location and Description:

Carr Creek Lake is located in the mountainous region of southeastern Kentucky, about 16 miles from Hazard, KY and 18 miles from Whitesburg, KY. The dam is located 8.8 miles above the mouth of Carr Fork, a tributary of the North Fork of the Kentucky River.

The Louisville District, Corps of Engineers designed, constructed, and operates the project. The project serves as one unit of the comprehensive plan for the Ohio River Basin to reduce the flood stages downstream from the dam. The lake provides water supply storage and operates to increase natural low-flow conditions downstream of the dam in the interest of water quality control. Also, the lake offers boating, fishing, swimming, and other recreational activities to the general public. During the Fall and Winter months, the lake is kept at a relatively low level, referred to as winter pool. Should heavy rains occur, surface water runoff is stored in the lake until the swollen streams and rivers below the dam have receded and can handle the release of the stored water without damage to lives and property.

The Master Plan update will provide guidance for the preservation, conservation, restoration, maintenance, management, and development of project lands, waters and associated resources located at Carr Creek Lake.

Summarized Financial Data:

	<u>Master Plan</u>
Estimated Federal Cost	\$262,350
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$262,350
Allocation thru FY23 (Federal)	\$262,350
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Authorization:

Flood Control Act approved 28 June 1938 (Public Law No. 526, 79th Congress, 2nd Session)

FY23 Activities:

The Louisville District completed the Master Plan and integrated Environmental Assessment update.

FY24 Planned Activities:

Print and distribute copies of the final updated Master Plan.

Issues and Other Information:

None

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Thomas Massie (KY-4)
REP Harold (Hal) Rogers (KY-5)

Kentucky River, Beattyville, KY General Investigation



Beattyville Ky Flood March 2021.

Current Phase:

Study Phase (Feasibility)

Location and Description:

Beattyville, Kentucky (Lee County) sits at the confluence of the North and South Forks to the Kentucky River. Three tributaries to the Kentucky River flow through the City of Beattyville, most notably Silver and Crystal Creeks; however, flooding impacts in Beattyville primarily result from backwater flooding of the Kentucky River.

This study will follow a single-phase feasibility study process. The study will examine a full array of Flood Risk Management (FRM) alternatives, consistent with agency policy, to comprehensively consider plans that will maximize National Economic Development (NED) benefits, Regional Economic Development (RED) benefits, and Environmental Quality (EQ) benefits as well as Other Social Effects (OSE).

Non-Federal Sponsor:

Lee County, Kentucky

Authorization:

P.L. 76-396 and P.L. 117-103

Summarized Financial Data:

Estimated Federal Cost	\$1,250,000
Estimated Non-Federal Cost	\$1,250,000
Total Estimated Project Cost	\$2,500,000
Allocation thru FY23 (Federal)	\$1,250,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Feasibility

FY23 Activities:

The Feasibility Cost Share Agreement (FCSA) was executed in January 2023 initiating the study. A Planning charrette was held in Beattyville in April 2023. Representatives from the City and other agencies attended the meeting. The Alternatives Milestone Meeting (AMM) was held in September of 2023.

FY24 Planned Activities:

The PDT will continue evaluating alternatives leading up to the Tentatively Selected Plan (TSP) milestone, which is currently scheduled for May 2024. Both structural and non-structural alternatives are being considered. After the TSP the PDT will work on the activities leading up to the Agency Decision Meeting (ADM) scheduled for the 1st Quarter of FY25.

Issues and Other Information:

There may be the need to apply for a National Economic Development (NED) waiver. A decision will be made sometime during the alternative evaluation process prior to the TSP. If determined to be necessary, the District will move forward with the request.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Hal Rogers (KY-5)

Breathitt County, Kentucky Flood Plain Management Services



City of Jackson, Breathitt County, KY

Current Phase:

Study

Location and Description:

The study focuses on the headwaters of the North Fork Kentucky River watershed in Breathitt County, Kentucky. This study will provide flood modeling and inundation maps to identify and describe flooding extents to inform precautionary and defensive options that Breathitt County could employ to help reduce harmful impacts of flooding.

Authorization:

The Flood Plain Management Services (FPMS) Program is authorized by Section 206 of the 1960 Flood Control Act (Public Law 86-645), as amended.

Sponsor:

Breathitt County, Kentucky.

FY23 Activities:

The Project Delivery Team (PDT) completed the existing conditions hydrologic analysis and initiated hydraulic modeling and mapping of the floodplain extents.

Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$130,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$130,000
Allocation thru FY23 (Federal)	\$130,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY24 Planned Activities:

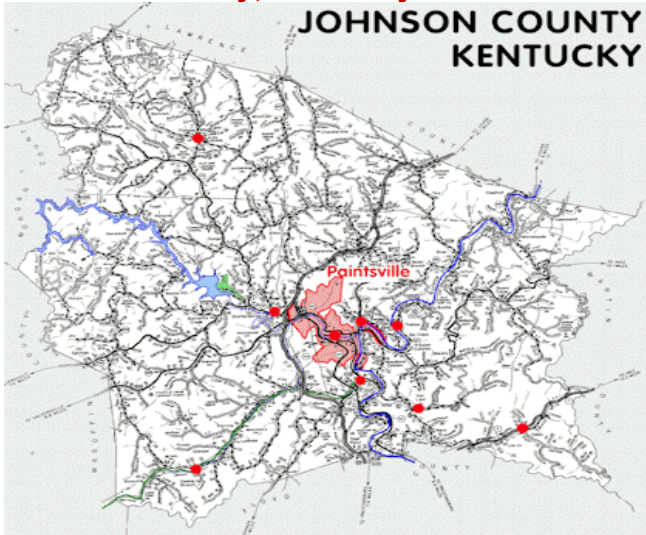
The PDT will complete inundation maps and propose potential options to address flooding concerns in Breathitt County, KY. The final report is scheduled for completion in the 2nd Quarter of FY24.

Issues and Other Information:

Coordination with the Non-Federal Sponsor was prolonged due to the July 2022 flood event.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Harold (Hal) Rogers (KY-5)

Johnson County, Kentucky Section 202*Paintsville and Johnson County, Kentucky***Current Phase:**

Design and Construction

Location and Description:

Johnson County is located approximately three hours east of Louisville, Kentucky and is home to over 20,000 residents. The City of Paintsville is the County Seat, with a population of just over 3,000 residents, and is flood prone as a result of backwater from the Levisa Fork of the Big Sandy River as well as headwater flooding from Paint Creek. This Flood Risk Management (FRM) project will evaluate and implement structural solutions to protect the City of Paintsville as well as develop a non-structural solution. Implementation of the project will be done in three phases.

Authorization: Section 202 of the 1981 Energy and Water Development Appropriations Act (PL 96-367; 94 STAT. 1339), as amended.

Summarized Financial Data:

Estimated Federal Cost	\$118,000,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$118,000,000
Allocation thru FY23 (Federal)	\$22,482,399
Balance to Complete after FY23	\$95,517,601
FY24 Capability (FED)	\$10,000,000
FY25 President's Budget	N/A

FY23 Activities:

The A/E continued with design activities related to Phase I (FWEEP). The Phase II East-West contractor started construction activities related to the floodwall on the West site. The Non-Federal Sponsor continued acquiring Lands, Easements, Rights-of-Way, Relocations, and Disposal Areas (LERRDS) for Phase III. Phase III design progressed to 90% complete and an Agency Technical Review was initiated.

FY24 Planned Activities:

Phase I – Completion of design and LERRDS Certification.

[Flood Warning Emergency Evacuation Plan]

Phase II – Continue construction on the West site and initiate construction on the East site.

[Levees/floodwalls at the courthouse/jail, King's Addition neighborhood, and borrow area]

Phase III – Finalize design efforts and continue LERRDS acquisition.

[Levee/floodwall system located on the North and South sides of Paint Creek]

Congressional Interest:

SEN Mitch McConnell (KY)

SEN Rand Paul (KY)

REP Harold (Hal) Rogers (KY-5)

Paintsville Lake, Kentucky Master Plan Update



Paintsville Lake

Current Phase:

Master Plan Update

Location and Description:

Paintsville Lake is approximately five miles northwest of Paintsville, KY in Johnson and Morgan Counties in eastern Kentucky. Paintsville Lake was built on Paint Creek, approximately seven miles upstream from the confluence of the creek with the Levisa Fork.

The Huntington District, Corps of Engineers designed, constructed, and operates the project for the purposes of flood risk management, water supply, low-flow augmentation, fish and wildlife enhancement, and recreation. The dam was completed in 1983 and serves a drainage area of 92.5 square miles.

The project has eight recreation areas including Paintsville Lake State Park and a 27-acre 1850's working farm that includes a historic home listed on the National Registry of Historic Places. It averages one million visitors a year, contributing \$31.5 million to the local economy and supporting 340 jobs.

The Master Plan update will provide guidance for the preservation, conservation, restoration, maintenance, management, and development of project lands, waters and associated resources located at Paintsville Lake.

Summarized Financial Data:

	<u>Master Plan</u>
Estimated Federal Cost	\$300,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$300,000
Allocation thru FY23 (Federal)	\$300,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Authorization:

Flood Control Act approved 22 June 1936 (Public Law No. 738, 74th Congress, 1st Session) and Flood Control Act approved 28 June 1938 (Public Law No. 761, 75th Congress, 3rd Session)

FY23 Activities:

Louisville District, in coordination with the Huntington District, completed the draft Master Plan and integrated Environmental Assessment. All internal reviews were completed.

FY24 Planned Activities:

Final stakeholder and public reviews are scheduled prior to finalization of the Master Plan and integrated Environmental Assessment. The Master Plan is scheduled for completion in January 2024.

Issues and Other Information:

The Louisville District is executing the Master Plan update on behalf of the Huntington District.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Harold Rogers (KY-5)

Clay City, Powell County, Kentucky, Flood Plain Management Services



Flooding in Clay City main city center

Current Phase:

Study

Location and Description:

Clay City is located in Powell County, in eastern Kentucky along the Red River. The county population is approximately 13,200.

Powell County experiences extensive flooding in late winter and early spring. Clay City developed over the years with a large portion of the city inside the floodplain. Each spring, the Red River often floods its banks and causes repetitive damage to infrastructure and structures.

In partnership with Powell County and Clay City, the Louisville District will develop and refine a hydraulic model to determine floodplain extents at various stream/river stages and identify alternatives to reduce flood risk along the Red River. This modeling will also support future mitigation efforts in the area.

Authorization:

The Flood Plain Management Services (FPMS) Program is authorized by Section 206 of the 1960 Flood Control Act (Public Law 86-645), as amended.

Study Sponsor:

Clay City, Kentucky

Summarized Financial Data:

Estimated Federal Cost	\$130,000
Estimated Non-Federal Cost	\$0
Estimated Project Cost	\$130,000
Allocation thru FY23 (Federal)	\$130,000
Balance to Complete After FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	NA

Feasibility

FY 23 Activities:

Modeling was developed and used to estimate the extent and depth of flood inundation in the Without Project Condition as well for an array of nine alternatives. The focus of these alternatives is to divert the floodwater from Red River before it reaches the populated area of Clay City.

FY 24 Planned Activities:

The study, and associated report, will be completed and submitted to the Powell County Judge Executive and the Mayor of Clay City in December 2023. Fiscal closeout will occur in early January 2024.

Issues and Other Information:

None

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Garland (Andy) Barr (KY-6)

Lexington, KY – Forage Animal Production Research Lab



Current Phase:

Planning/Design

Location and Description:

This project will construct a new research center including office/laboratory (39,000 GSF) and research greenhouses (11,000 GSF) for a total of 50,000 GSF in Lexington, KY. It will also construct an animal lab at Little Research Center, Versailles, KY. USACE was notified 31JAN23 that only Campus site will be advertised for a construction contract award.

Authorization:

FY20 IIS (USDA)

FY23 Activities:

Design, Advertisement/Award, Construction

FY24 Planned Activities:

Construction

Issues and Other Information:

AE Task Order to complete the design was awarded NOV22. Advertisement for Campus site is scheduled for 1QFY24.

Summarized Financial Data:

	<u>Construction</u>
Estimated Federal Cost	\$38,500,000*

*Updated CWE pending MAR 23

Congressional Interest:

Sen Mitch McConnell

Sen Rand Paul

Rep Andy Barr

Covington, Kentucky Levee System
Section C, Stations 169+50 to 180+00



Covington, Kentucky Levee

Current Phase:

Post Construction

Location and Description:

On 11 January 2023, the Chief of Engineering and Construction Division at HQUSACE signed a memo confirming the determination of a Design and Construction Deficiency for the Covington, Kentucky Levee System, Section C, Stations 169+50 to 180+00. This memo documents that unfavorable geotechnical issues were present during the original design, but were unaccounted for, causing slope instability that was never fully mitigated. Repairs are required to make the project function as initially intended and are not a result of inadequate local maintenance by the City of Covington, KY.

Embankment failures have occurred in 1956, 1983, 2012, and as recent as 2019. Early failures were addressed by USACE and included replacement of floodwall monoliths, temporary drainage pits, and finger drains. The cost of the 2012 repair was borne completely by the City of Covington, KY. The 2019 embankment failure has not yet been repaired and was the catalyst for pursuing the design deficiency determination.

A Letter Report is being prepared to evaluate alternatives, including a NEPA analysis, and identify the recommended alternative, with a cost estimate, to correct the design deficiency. FY24 funding is needed to complete the Letter Report and initiate design.

Summarized Financial Data:

Estimated Federal Cost	\$20,450,000*
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$20,450,000
Allocation thru FY23 (Federal)	\$0
Balance to Complete after FY23	\$20,450,000
FY24 Capability (FED)	\$450,000
FY25 President's Budget	TBD

* This is the best estimate of funds needed at this time. Once the recommended alternative is identified in the Letter Report and design is complete (including a detailed cost estimate) additional funds may be needed in FY26 for construction.

Sponsor: N/A (Repairs at full Federal expense)

Authorization:

Flood Control Act approved 28 June 1938

FY23 Activities:

Preparation of the Letter Report was initiated in FY23 with Inspection of Completed Work (ICW) funds, however, there are not sufficient ICW funds available to complete the report.

FY24 Planned Activities:

FY24 funds are needed to complete the Letter Report, and once the report is approved, to initiate design.

Issues and Other Information:

If the \$450K in FY24 is not sufficient to complete the design, additional funds will be needed to complete the design and also to award the construction contract in FY25

Due to its current condition, this project is considered to be the highest risk compared to LRL's 57 Federally authorized and constructed levee systems. The 2019 slope failure continues to progress and puts the approximately 10,000 people and 3,000 structures within the City of Covington, KY at risk due to potential impacts to the foundation for the 16-foot-tall floodwall. A 200-year flood event would begin loading the compromised floodwall in this area.

Congressional Interest:

SEN Mitch McConnell
 SEN Rand Paul
 REP Thomas Massie (KY-4)

City of Ludlow, Kentucky Flood Plain Management Services



Areas of flooding in Ludlow, KY

Current Phase:

Study

Location and Description:

The City of Ludlow is located in Kenton County in northern Kentucky across the Ohio River from Cincinnati, Ohio. The population is 4,407.

Ludlow experiences flooding caused by the Ohio River backing up Pleasant Run Creek, which separates the City of Ludlow, KY from the City of Bromley, KY. Runoff from Covington, KY and Park Hills cannot dump into the river, thereby causing localized flooding when the river levels are high. This study will provide models for floodplain management and develop and evaluate alternatives for potential mitigation. The study will create a critical infrastructure inventory and perform an existing conditions hydrologic analysis and hydraulic modeling, as well as produce flood maps and a report.

Authorization:

The Flood Plain Management Services (FPMS) Program is authorized by Section 206 of the 1960 Flood Control Act (Public Law 86-645), as amended.

Sponsor:

City of Ludlow, Kentucky

Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$100,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$100,000
Allocation thru FY23 (Federal)	\$100,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY23 Activities:

The Project Delivery Team (PDT) conducted a site visit and kickoff meeting with the Non-Federal Sponsor. The PDT performed existing conditions hydrologic analysis and hydraulic modeling of the areas of concern and began gathering data to support recommendations for future development in the areas of concern.

FY24 Planned Activities:

The PDT will compile a report, which will include proposed potential solutions for the flooding issues in the City of Ludlow. Project close-out activities.

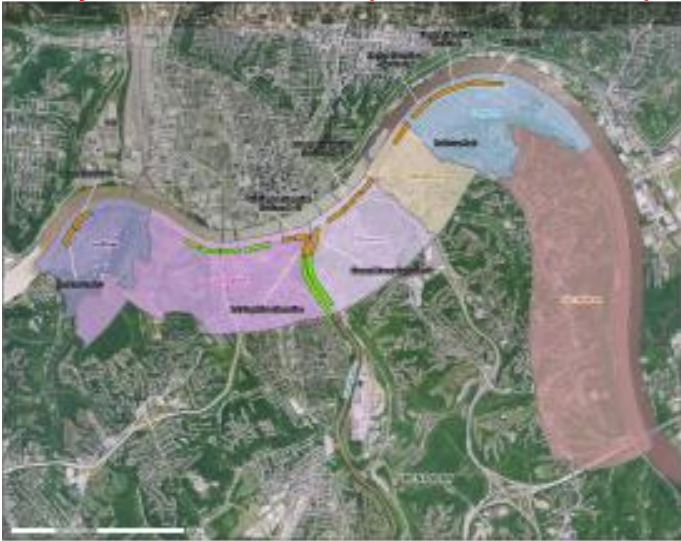
Issues and Other Information:

Lack of stormwater management in the City has led to the current issues.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Thomas Massie (KY-4)

Northern Kentucky Riverfront Ecosystem Restoration (CAP Section 1135)



Tentatively Selected Plan Location and Restoration Measures

Current Phase:

Design and Implementation (D&I)

Location and Description:

The project area is located along 12 miles of the Ohio River across from Cincinnati, OH. The project area includes the riparian areas of the cities of Dayton, Bellevue, Newport, Covington, and Ludlow, including about 0.5 mile upstream of the Licking River from the mouth of the Ohio River.

The project is focused on ecosystem restoration along the Ohio River and the mouth of the Licking River. The primary goal is to restore riparian structure and function, including geomorphology, vegetation, and wildlife, with the potential added benefit of enhancing compatible public access to the rivers. Incidental benefits also include providing additional retention time for stormwater and flood waters.

Authorization:

Section 1135 of Water Resources Development Act of 1986, as amended – Aquatic Ecosystem Restoration Study

Sponsor(s):

Dayton, Covington, Newport and Ludlow, Kentucky
South Bank Partners, Inc.

Summarized Financial Data:

	<u>D&I</u>
Estimated Federal Cost	\$6,948,750
Estimated Non-Federal Cost	\$2,316,250
Total Estimated Project Cost	\$9,265,000
Allocation thru FY23 (Federal)	\$100,000
Balance to Complete after FY23	\$6,848,750
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

FY23 Activities:

The Project Delivery Team continued to negotiate a multi-party Project Partnership Agreement with the cities of Dayton, Newport, Covington, and Ludlow, and Southbank Partners, Inc for the Design and Implementation phase. Based on a request from the sponsors, the team submitted a nonstandard real estate request to Headquarters and is awaiting a decision.

FY24 Planned Activities:

Once a decision is made relating to the nonstandard real estate request, a Project Partnership Agreement with the sponsors will be executed and the Design & Implementation phase will be initiated.

Issues and Other Information:

The study was originally initiated using General Investigation funds and was later converted to a CAP Section 1135. A multi-party Project Partnership Agreement is required to start the Design and Implementation phase. The City of Bellevue dropped out of the project in the 4th Quarter of FY22.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Thomas Massie (KY-4)

Floyds Fork, Louisville, Kentucky Ecosystem Restoration (CAP Section 206)



Floyds Fork, Kentucky

Current Phase:

Design & Implementation (D&I)

Location and Description:

Floyds Fork is a 62-mile-long tributary to the Salt River that runs through Henry, Oldham, Jefferson, and Bullitt Counties in Kentucky.

The Recommended Plan (approved in August 2021) consists of four separate project areas in the Floyds Fork watershed: Long Run, Walker, Chenoweth Run, and Glory Road. The Recommended Plan includes in-stream restoration at Long Run, bottomland hardwood plantings at all sites, wetland restoration at Chenoweth Run, and wetland creation at the Walker and Glory Road project areas. The Recommended Plan will restore approximately 50 acres of bottomland hardwood forest, 15.5 acres of wetlands, and 6,500 linear feet of in-stream habitat.

Authorization:

Section 206 of the Water Resources Development Act of 1996 (P.L. 99-662), as amended – Aquatic Ecosystem Restoration Study

Sponsor: Future Fund, Inc.

Summarized Financial Data:

	<u>(D&I)</u>
Estimated Federal Cost	\$8,083,400
Estimated Non-Federal Cost	\$4,352,600
Total Estimated Project Cost	\$12,436,000
Allocation thru FY23 (Federal)	\$0
Balance to Complete After FY23	\$8,083,400
FY24 Capability (FED)	\$425,000
FY25 President's Budget	TBD

FY23 Activities:

The project was on-hold in FY23 to allow the Non-Federal sponsor time to identify matching funds for the D&I phase.

FY 24 Planned Activities:

If funds are received, execution of the Project Partnership Agreement (PPA) and initiation of design.

Issues and Other Information:

The estimated budget for the D&I phase is \$12.4 Million (fully funded project cost), which is cost shared 65% Federal and 35% Non-Federal.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Morgan McGarvey (KY-3)
REP Brett Guthrie (KY-2)

Veterans Affairs Medical Center (VAMC) Louisville



Construction progress dated 14 OCT 2023 (view looking northeast).

Current Phase:

Construction

Location and Description:

The project is located in Louisville, KY.

The project includes a new approximately 910,000 square foot medical facility, 18,800 square foot regional laundry, and 44,200 square foot central utility plant – a total of approximately 973,000 square feet of new construction. The project also includes new structured parking for approximately 2,600 cars. The associated scope also includes new infrastructure including underground utilities, roadways, sidewalks, perimeter fencing, landscaping, and other site improvements on the approximately 34-acre site.

The overall project will replace the existing Louisville VA Medical Center (Robley Rex), which opened in 1952 and serves approximately 45,000 Veterans.

This construction contract does not include any demolition efforts on the existing Medical Center property.

Summarized Financial Data:

	<u>Construction</u>
Estimated Federal Cost	\$ 1,013,000,000
Estimated Non-Federal Cost	\$ 0
Total Estimated Project Cost	\$ 1,013,000,000
Allocation thru FY23	\$ 1,013,000,000
President's Budget for FY24	\$ 0
Balance to Complete After FY24	TBD

Authorization:

- National Defense Authorization Act (NDAA) for Fiscal Year 2016 (PL 114-92, Sec. 1096).
- Interagency Agreement (IAA) between DVA CFM and USACE, Number VA101F-15-M-0005, Order 0001, dated 31 AUG 2015.

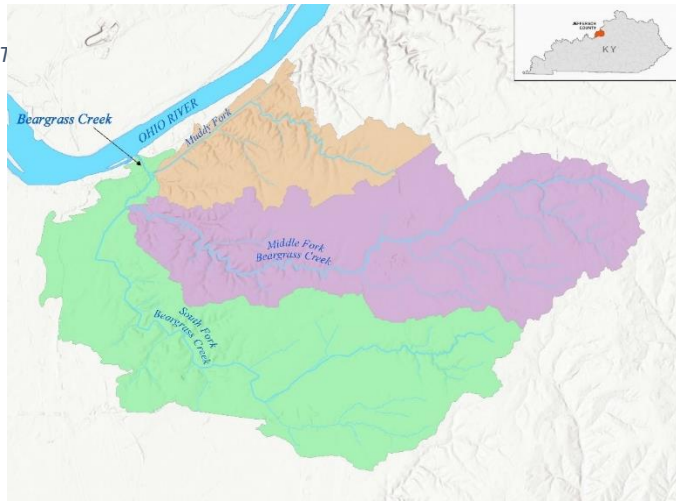
Current Status:

- Topping Off Ceremony scheduled for 30 NOV 2023 marking the completion of structural steel erection.
- Overall construction is approximately 25% complete.
- All foundation work is complete, along with most of the site utility infrastructure.
- Current Contract Completion date is JAN 2026.
- Physical activities began on site in DEC 2021.
- Groundbreaking was held on 11 NOV 2021.
- Construction contract awarded to Walsh Turner Joint Venture II on 17 AUG 2021.

Congressional Interests:

- SEN Mitch McConnell (KY)
- SEN Rand Paul (KY)
- REP Morgan McGarvey (KY/3rd District)

Three Forks of Beargrass Creek Jefferson County, Kentucky



Current Phase:

Design

Location and Description:

The project area is located in Louisville, Kentucky and includes the three major branches of Beargrass Creek. The three forks converge just east of downtown Louisville before discharging into the Ohio River.

The Recommended Plan consists of 12 sites – six on the South Fork, four on the Middle Fork, one on the Muddy Fork, and one at the confluence with the Ohio River. The plan will restore 620 acres of habitat and 8.8 miles of stream. The plan also includes the removal of 18 connectivity barriers throughout the watershed. The plan will provide scarce habitat in an urban setting and set an example of ecosystem restoration success in a degraded system that can be followed by other cities with similar issues.

Authorization:

Section 8401, Water Resources Development Act 2002

Sponsor:

Louisville and Jefferson County Metropolitan Sewer District

FY23 Activities:

Lieutenant General Scott Spellmon signed the Chief's Report in May of 2022. Louisville District Commander Eric Crispino signed the FONSI in August 2022. The Non-Federal Sponsor and Louisville District continued coordination and planning for the design phase of the project.,

Summarized Financial Data:

	<u>Design</u>
Estimated Federal Cost	\$92,514,500
Estimated Non-Federal Cost	\$49,815,500
Total Estimated Project Cost	\$142,330,000
Allocation thru FY23 (Federal)	\$0
Balance to Complete after FY23	\$92,514,500
FY24 Capability (FED)	\$500,000
FY25 President's Budget	TBD

FY24 Planned Activities:

If funding is received, prepare and execute a Design Agreement with the local sponsor. Initiate Phase I design once the Design Agreement has been executed.

Issues and Other Information:

Louisville District has been working with HQ Real Estate on final approval of non-standard estate to enable the sponsor to acquire property via conservation easements to construct the project.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Morgan McGarvey (KY-3)

Louisville Metro, Kentucky Flood Protection System



Beargrass Creek Pump Station – Louisville, KY

Current Phase:

Design

Location and Description:

The project consists of a levee and floodwall system, with numerous pumping stations for maintaining interior drainage in times of flooding. The project was constructed between March 1947 and March 1956 and was assigned to local interests in February 1957. The project affords protection for loss of life and property damage to the City of Louisville against an Ohio River flood equal to the maximum flood of record (January 1937). The project is operated and maintained by the Louisville and Jefferson County Metropolitan Sewer District (MSD). The project consists of the rehabilitation, repair, and replacement of aging project features including floodwalls, gate structures, and pump station equipment constructed as a part of the project which was originally authorized by Section 4 of the Flood Control Act of June 28, 1938 (52 Stat. 1217).

The area protected includes a major medical complex in downtown Louisville, including University Hospital, the region's major trauma center; the downtown entertainment district; and the national headquarters for Humana. Also included within the line of protection are the University of Louisville main campus, as well as Old Louisville, the nation's largest Victorian neighborhood, and a National Register of Historic Places District.

Sponsor:

Louisville/Jefferson County Metropolitan Sewer District (MSD)

Summarized Financial Data:

<u>Design & Construction</u>	
Estimated Federal Cost	\$134,117,100
Estimated Non-Federal Cost	\$72,216,900
Total Estimated Project Cost	\$206,334,000
Allocation thru FY23 (Federal)	\$1,000,000
Balance to Complete after FY23	\$133,117,100
FY24 Capability (FED)	\$7,000,000
FY25 President's Budget	TBD

Authorization:

Section 401(2)(4) of WRDA 2020

FY23 Activities:

The sponsor continued to work on In-Kind credit projects at Paddy's Run and Canal Station floodwall based on the Memorandum of Understanding between MSD and USACE. A Design Agreement was executed in July of 2023. Louisville District began scoping efforts for a Phase 1 design of the Beargrass Creek Pump Station.

FY24 Planned Activities:

The Phase 1 design will go through work initiation and design will begin 1st Quarter of FY24. Ready-to-Advertise (RTA) for Phase 1 is currently scheduled for FY25.

The Sponsor will continue with their design-build contract at Paddy's Run Pump Station. Estimated completion is FY27.

The Sponsor will continue design of Canal Station Floodwall. Estimated completion for design is FY24.

Issues and Other Information:

The PDT and Sponsor are working toward a Public Private Partnership Agreement that would allow the project to be delivered in a non-standard way utilizing Section 221 and Section 204 delivery methods. A workshop is scheduled for December 5-7, 2023 in Louisville, Kentucky.

Congressional Interest:

SEN Mitch McConnell
SEN Rand Paul
REP Morgan McGarvey (KY-3)
REP Brett Guthrie (KY-2)

**Chickasaw Park, Louisville, Kentucky
Emergency Streambank Stabilization,
Kentucky (CAP Section 14)**



Current Phase:

Design and Implementation (D&I)

Location and Description:

Chickasaw Park is located in the northwestern portion of Louisville, Kentucky adjacent to the Ohio River. The Park is approximately 61 acres in size.

Chickasaw Park was designed by the Olmsted Firm in 1923 and was one of a small number of public parks available to African Americans during segregation in Louisville. The Park continues to serve Louisville residents today providing a wide range of outdoor recreational amenities.

The project will stabilize approximately 250 feet of streambank in the northern section of the park along the Ohio River.

Authorization:

Section 14 of the Flood Control Act of 1946, as amended.

Sponsor:

City of Louisville, Kentucky

Summarized Financial Data:

	<u>(D&I)</u>
Estimated Federal Cost	\$4,038,450
Estimated Non-Federal Cost	\$2,174,550
Total Estimated Project Cost	\$6,213,000
Allocation thru FY23 (Federal)	\$0
Balance to Complete After FY23	\$4,038,450
FY24 Capability (FED)	\$332,800
FY25 President's Budget	TBD

FY23 Activities:

The Feasibility Study, with integrated Environmental Assessment, was approved in September 2023 and recommended riprap placement on the bank to address erosion.

FY 24 Planned Activities:

If funds are received, execution of a Project Partnership Agreement (PPA) to initiate design.

Issues and Other Information:

Non-federal matching funds are required to initiate design. The earliest that matching funds could be submitted is July 2024.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Morgan McGarvey (KY-3)

Fort Knox, KY



Location and Description:

Fort Knox is one of the most multifunctional installations in the Army. The units and organizations here run the gamut from U.S. Army Forces Command warfighting units and Reserve component training units to commands such as U.S. Army Cadet Command and U.S. Army Recruiting Command, which are responsible for identifying, educating and recruiting the Army's newest officers and Soldiers. The commander of Cadet Command also serves as the installation's commanding general. In addition, U.S. Army Human Resources Command - located in the Lt. Gen. Timothy J. Maude complex- manages all Soldiers' personnel actions, from initial enlistment through retirement. Fort Knox is home to more than 30 commands and organizations with a daytime population of about 26,260 Soldiers, civilian employees and Family members.

Authorization:

Military Construction, Army
Minor Construction, Army
Operation and Maintenance, Army

FY24 Activities:

Design, procurement, and construction management activities. Including:

- 4 MILCON, Army projects (Digital Air/Ground Integration Range, Van Voorhis ES, Scott Middle School, Child Development Center)
- 1 MILCON, Army Reserve project (ASF Hanger)
- 1 Minor MILCON project (Separate Toilet/Shower Bldg)
- 3 O&M Projects (V-Corps HQ, Track Repair, Middle/High School Gym Floor Replacement)

FY25 Planned Activities:

Design, procurement, and construction management activities and continued support of new projects.

Issues and Other Information:

NSTR

Summarized Financial Data:

Military Estimated Federal Cost
\$2,237,233,338

Army Reserve Estimated Federal Cost
\$90,000,000

Congressional Interest:

Sen. Mitch McConnell (KY)
Sen. Rand Paul (KY)
Rep. Brett Guthrie (KY)

Leitchfield, Kentucky Flood Plain Management Services



Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$100,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$100,000
Allocation thru FY23 (Federal)	\$100,000
Balance to Complete after FY23	\$0
FY24 Capability (FED)	\$0
FY25 President's Budget	N/A

Current Phase:

Study

Location and Description:

Leitchfield is located in central western Kentucky near the Kentucky River. The city population is approximately 6,000. The study area primarily includes a one square-mile neighborhood located just north of the downtown area.

The study will focus on an evaluation of nuisance flooding in the vicinity of the city of Leitchfield in Grayson County, Kentucky. Leitchfield experiences periodic flooding with the most recent flooding in both 2019 and 2020. This study will examine the stormwater infrastructure within the extents of the nuisance flooding. After discussion and coordination with the Leitchfield mayor and city engineer, the Project Delivery Team (PDT) determined there is a significant need for an analysis of the most recent flooding, as well as data collected from field surveys focused on the stormwater infrastructure corridors within the area of concern.

Authorization:

The Flood Plain Management Services (FPMS) Program is authorized by Section 206 of the 1960 Flood Control Act (Public Law 86-645), as amended.

Sponsor:

City of Leitchfield, Kentucky

FY23 Activities:

The PDT assessed existing conditions and performed surveys of the areas of concern. Utilizing this information, modeling was performed on an array of alternatives to reduce flooding from stormwater issues in the project area and recommendations were made based on modeling results and cost estimates. A final report and appendices detailing this work was delivered to the sponsor in September 2023.

FY24 Planned Activities:

The PDT held a closeout meeting with the sponsor in Leitchfield, KY and is working on closing out the project in November 2023.

Issues and Other Information:

None.

Congressional Interest:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)
REP Brett Guthrie (KY-2)

Ohio River Locks and Dams Master Plan



Robert C. Byrd Locks and Dam

Current Phase:

Regional Master Plan Update

Location and Description:

The Regional Master Plan consists of the six locks and dams along the Ohio River including areas in West Virginia, Kentucky, and Ohio. The locations are listed below from east to west.

Willow Island Locks and Dam is located on the Ohio River, 161.7 miles downstream from Pittsburgh, PA, and 3.4 miles upstream from Waverly, WV.

Belleville Locks and Dam is located on the Ohio River at mile 204. Belleville Locks sit 203.9 miles below Pittsburgh, PA, and 0.5 miles below Belleville, WV.

Racine Locks and Dam is located on the Ohio River, 237.5 miles below Pittsburgh, PA and 1.5 miles downstream from Letart Falls, OH.

Robert C. Byrd Locks and Dam is located on the Ohio River, 279.2 miles below Pittsburgh, PA, and 9 miles below the City of Gallipolis, OH.

Greenup Locks and Dam is located on the Ohio River, 341.0 miles below Pittsburgh, PA, and 5.0 miles below Greenup, KY.

Meldahl Locks and Dam is located at mile 436 of the Ohio River in Felicity, Ohio. It is 436.2 miles below Pittsburgh, PA, and 1.7 miles below Chilo, OH.

The purpose of the locks and dams is to create a series of steps which river tows and other boats either climb or descend as they travel upstream or downstream. Additionally, the locks and dams provide the opportunity for public recreation and wildlife and vegetative habitats. Belleville and Greenup are also equipped with privately-owned hydroelectric plants.

Summarized Financial Data:

	<u>Master Plan</u>
Estimated Federal Cost	\$610,000
Estimated Non-Federal Cost	\$0
Total Estimated Project Cost	\$610,000
Allocation thru FY23 (Federal)	\$530,000
Balance to Complete after FY23	\$80,000
FY24 Capability (FED)	\$80,000
FY25 President's Budget	N/A

Authorization:

River and Harbor Act of 3 March 1909, Sixtieth Congress, 2nd Session. Flood Control Act of 1944 and amendments.

FY23 Activities:

Louisville District, in coordination with Huntington District, reformatted the initial draft Master Plan to fit the description of "integrated" vs "stand alone" Environmental Assessment.

FY24 Planned Activities:

The District quality control reviews are planned prior to public release and review of the draft report. Once public and agency review of the draft report is complete, the Districts will address public comments and finalize the report. The Master Plan update is scheduled for completion in July 2024.

Issues and Other Information:

The Louisville District is executing the Master Plan update on behalf of the Huntington District.

Congressional Interest:

Greenup – Mitch McConnell (KY), Rand Paul (KY), Sherrod Brown (OH), J.D. Vance, (OH), Thomas Massie (KY-4), Hal Rogers (KY-5), Bill Johnson (OH-6)

Meldahl – Sherrod Brown (OH), J.D. Vance, (OH), Mitch McConnell (KY), Rand Paul (KY), Brad Wenstrup (OH-2), Thomas Massie (KY-4)

RC Byrd – Joe Manchin (WV), Shelley Moore Capito (WV), Sherrod Brown (OH), J.D. Vance, (OH), Carol Miller (WV-1), Bill Johnson (OH-6)

Willow Island – Sherrod Brown (OH), J.D. Vance, (OH), Joe Manchin (WV), Shelley Moore Capito (WV), Bill Johnson (OH-6), Carol Miller (WV-1)

Racine – Joe Manchin (WV), Shelley Moore Capito (WV), Sherrod Brown (OH), J.D. Vance, (OH), Bill Johnson (OH-6), Carol Miller (WV-1)

Belleville – Joe Manchin (WV), Shelley Moore Capito (WV), Sherrod Brown (OH), J.D. Vance, (OH), Carol Miller (WV-1), Alexander Mooney (WV-2), Bill Johnson (OH-6)

Southern and Eastern Kentucky Environmental Infrastructure Program



Current Phase: Varies per project.

Location and Description:

Southern and Eastern Kentucky.

The Section 531 Program is cost shared with a non-Federal sponsor and requires a local match of 25%. The Huntington District, Corps of Engineers is the overall program manager, with responsibility for project implementation assigned to the Nashville, Huntington, and Louisville Districts, as determined by the location of the projects. Prior to design and/or construction of a Section 531 project, the Corps and the non-Federal sponsor enter into a Project Partnership Agreement (PPA) outlining the project scope, cost, and responsibilities for implementation.

Authorization:

Section 531 of the Water Resources Development Act of 1996 (Public Law 104-303), as amended.

Summarized Financial Data:

Authorized Program Limit	\$40,000,000
FY 23 Allocation	\$1,000,000

Louisville District Section 531 Projects:

- City of Hyden, Leslie County – The project entails design and construction of approximately three miles of sewer force main and 50 grinder pumps to fifty households in the City of Hyden. This project will mitigate environmental contamination by replacing the 25 failing septic systems and 14 straight pipe sewer systems within the project area. Total project cost is estimated at \$766,667. PPA executed on March 23, 2018. EA/FONSI signed in October 2020. Plans and Specs were approved by the District in July 2023 and Ready to Advertise is scheduled for March 2024.
- Roxana, Letcher County – The project consists of design and construction of approximately 50,000 linear feet of 10-inch through a 3-inch water

transmission main along with elevated storage tank and booster pump station to support the construction and operation of an 800-acre Federal correctional facility in Roxana, Kentucky. The extension would provide access to potable water to approximately 100 households. Total project cost is estimated at \$1,433,333. PPA executed on March 21, 2018. EA/FONSI signed in February 2019. Currently waiting on OSMRE for their Environmental reviews before this can go to bid.

- Mount Vernon, Rock Castle County – The project will consist of the design and construction of improvements to the public drinking water plant. Currently the public water is very unpalatable, and the improvements will directly increase the quality of life for residents. Total project cost is estimated at \$1,000,000. PPA executed on February 25, 2019. EA/FONSI signed in December 2020. Bids received in August of 2023 showed the estimate tripled in amount from original estimate. The sponsor will submit an application in Spring of 2024 for additional funding to help complete the project.
- City of Hazard, Perry County – The project will consist of the design and construction of improvements to the Buckhorn Dam Tailwater Channel Raw Water Intake Structure. Currently the public water is very unpalatable, and the improvement will directly increase the quality of life for residents. Total project cost is estimated at \$1,433,333. The PPA was signed in December 2022. The EA/FONSI has been through public review and currently in ATR review.
- Troublesome Creek Environmental Authority, Perry County – The project will consist of the design and construction of improvement of the Sewer Collection Project Phase III. Total project cost is estimated at \$623,333. The PPA is schedule to be executed in December 2023.
- Leeco Road, Leslie County sanitary sewer extension. The proposed project will include several miles of two- and four-inch force main, with a main pump station at the campground, and 40 individual grinders for 40 homes along the proposed line. The proposed project will eliminate failing septic tanks located within the drainage of the existing Hyden-Leslie County Water Treatment Plant source water of the Middle Fork of the Kentucky River. PPA execution is expected in the 2nd quarter of FY 24. The total project cost received is \$1,333,333.
- City of Jackson, Breathitt County – This project will increase water storage in the current system and increase the system pressure in this area of the city's service area. It will replace an aging in-ground pump station and tank both located at King's Ridge. This project will serve a new housing development site for flood victims affected by the July 2022 Flood in

eastern Kentucky. The Kickoff meeting was in August 2023. The Total project cost is \$1,333.333.

Congressional Interest:

SEN Mitch McConnell (KY)

SEN Rand Paul (KY)

REP Harold (Hal) Rogers (KY)

Issues and Other Information:

None.

Kentucky Silver Jackets Program



Current Phase:

Active

Location and Description:

Projects are located throughout the Commonwealth of Kentucky.

Silver Jackets teams in states across the United States bring together multiple state, federal, and sometimes tribal and local agencies to learn from one another in reducing flood risk and other natural disasters. By applying their shared knowledge, the teams enhance response and recovery efforts when such events do occur. While some states do not use the "Silver Jackets" name, there are a growing number of states applying the Silver Jackets approach – the ultimate goal is a state-led interagency team in every state. No single agency has all the answers but leveraging multiple programs and perspectives can provide a cohesive solution.

Although each state Silver Jackets team is unique, common agency participants include state agencies with mission areas of hazard mitigation, emergency management, floodplain management, natural resources management or conservation, etc. Federal participation typically includes the U.S. Army Corps of Engineers and the Federal Emergency Management Agency and often others such as the National Weather Service and the U.S. Geological Survey.

Authorization:

USACE Flood Risk Management Program

Current Kentucky Silver Jackets FPMS Efforts:

- Kentucky Emergency Action Plan Template Process – This project is developing a template process that the Commonwealth of Kentucky will share with non-

residential facilities located in a floodplain. These facilities can then use this template process to develop emergency action plans to reduce flood risk at their facilities. Two private sector businesses with manufacturing facilities in the floodplain will be assisting USACE with this effort.

- Kentucky Flooding & Flood Tools Outreach Campaign – This \$87.5K study will develop a series of workshops across the Commonwealth to better educate county judge executives, county magistrates, county surveyors, emergency/floodplain managers, and soil and water conservation personnel about flooding causes, available flood risk reduction tools, and potential mitigation best practices. These workshops will focus on flash, riverine, and stormwater flooding; climate change impacts, flood related regulations/best practices, and available FRM data and tools.
- Kentucky Stream & Lake Gage Prioritization Study – This \$60K effort will develop a plan and strategy to optimize/prioritize stream and lake gage placement in Kentucky based on multiple factors and working with multiple partners. This effort would in turn lead to better stream and lake data, increased awareness, and reductions in flood risk across Kentucky.

Non-Federal Sponsors:

- Kentucky Division of Water
- Kentucky Emergency Management
- Kentucky Department for Local Government
- Kentucky Geological Service
- Kentucky Transportation Cabinet
- Kentucky Association of Mitigation Managers
- Multiple Local Governments and Agencies

Federal Sponsors:

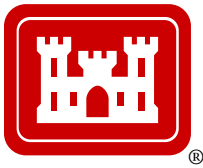
- U.S. Army Corps of Engineers (USACE)
- Federal Emergency Management Agency (FEMA)
- Natural Resources Conservation Service (NRCS)
- U.S. Geological Survey (USGS)
- National Weather Service (NWS)
- Environmental Protection Agency (EPA)
- Tennessee Valley Authority (TVA)

Activities for FY 2024:

Continue to coordinate with state and federal agencies across the Commonwealth in order to better reduce flood risks in Kentucky. The Kentucky Silver Jackets team has been instrumental in coordinating resources, data, and information in response and recovery efforts for the flooding that ravaged Eastern Kentucky in July of 2022.

Issues and Other Information:

None



Eastern KY Flooding, Planning Assistance To States (PAS)

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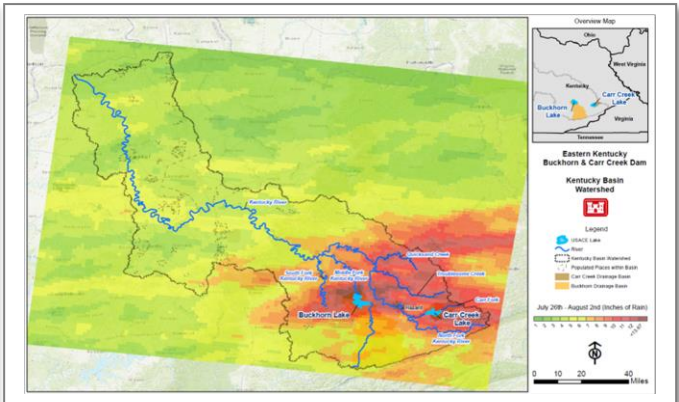
AUTHORIZATION: Planning Assistance to States (PAS) Section 22 of the Water Resources Development Act (WRDA) of 1974 (Public Law 93-251), as amended

PROJECT SPONSOR: Commonwealth of Kentucky Division of Water

LOCATION: Eastern, Kentucky



Image of flooding in Jackson, KY from July 2022.



Rainfall intensity map from July 2022 storms.

Congressional Member Interest	Key Stakeholder Interest
SEN Mitch McConnell (KY)	Affected counties and communities
SEN Rand Paul (KY)	Commonwealth of Kentucky
REP Hal Rogers (KY-5)	

PROJECT DESCRIPTION AND BACKGROUND: The project is located within Eastern Kentucky, and will encompass numerous counties including Breathitt, Clay, Estill, Harlan, Knott, Lee, Leslie, Letcher, Owsley, Perry, and Wolfe Counties.

The study will focus on the flooding that ravaged Eastern Kentucky in March of 2021 and July of 2023. The study will examine the hydrology and hydraulics associated with these flood events in the North Fork of the Kentucky River and its tributaries to develop possible flood mitigation strategies and improve flood warning systems & emergency evacuation procedures when applicable. The study will also look to capture, and model observed flood data in response to Eastern Kentucky flood events, and potential development of inundation mapping capability to support responses to future flood events.

As of: 03/20/2023

U.S. Army Corps of Engineers – Great Lakes and Ohio River Division
600 Dr. Martin Luther King Jr. Place Louisville, KY 40202
<http://www.lrd.usace.army.mil>

BUDGET INFORMATION:

Authorized Total Project Cost	\$1,000,000 (estimate)
Non-Federal Sponsor Cost	\$500,000 (estimate)
Federal Cost	\$500,000 (estimate)
Funding Received to Date	\$0

CURRENT STATUS: The Louisville District and the Commonwealth of Kentucky are negotiating the final scope of work and will look to begin work on the study in FY 23. The Commonwealth of Kentucky will be utilizing in-kind resources as their cost share. The Water Resources Development Act of 2022 contained authorities in Section 8103 and Section 8201 in response to the flooding in Eastern Kentucky, but no funding has been appropriated yet.

Project POC:

John Bock

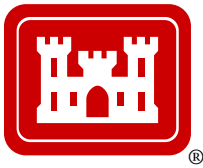
Deputy District Engineer

john.r.bock@usace.army.mil

(502) 315-6104

As of: 03/20/2023

U.S. Army Corps of Engineers – Great Lakes and Ohio River Division
600 Dr. Martin Luther King Jr. Place Louisville, KY 40202
<http://www.lrd.usace.army.mil>



Emergency Action Plan Template Kentucky

U.S. ARMY CORPS OF ENGINEERS

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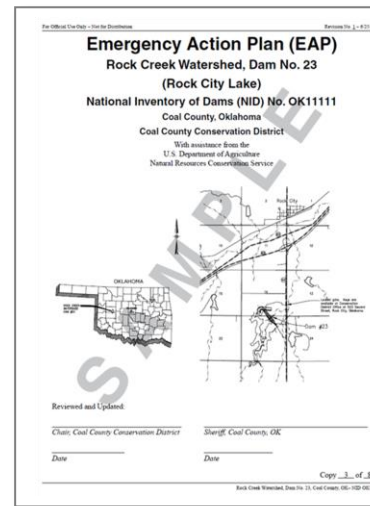
AUTHORIZATION: Section 206 of the Flood Control Act of 1960 (86-645)

PROJECT SPONSOR: Kentucky Emergency Management (KYEM)

LOCATION: Industries in the Commonwealth of Kentucky



Buffalo Trace Distillery on the Kentucky River



Congressional Member Interest	Key Stakeholder Interest
SEN Mitch McConnell (KY)	National Weather Service
SEN Rand Paul (KY)	U.S. Geological Services
REP Thomas Massie (KY-4)	Kentucky Division of Water
REP Andy Barr (KY-6)	Environmental Protection Agency
REP Brett Guthrie (KY-2)	Beam Suntory

PROJECT DESCRIPTION AND BACKGROUND:

Because of recent repeated flooding impacting one of Kentucky's largest industries, the Kentucky Silver Jackets Team would like to develop a Flooding Related Emergency Action Plan (EAP) Template Process for the Commonwealth to provide to industries and non-residential facilities located in or near the floodplain.

In many cases, non-residential facilities have inadequate flood warning and lack the knowledge and expertise on how to obtain flood warning related information or how to adequately use that information to mitigate, respond to or operate during flooding. The district has identified pilot facilities to partner within this effort: the Buffalo Trace Distillery, the Jim Beam Distillery located along the Kentucky River, and Jim Beam's Clermont, Kentucky distillery.

As of: 03/20/2023

U.S. Army Corps of Engineers – Great Lakes and Ohio River Division
600 Dr. Martin Luther King Jr. Place Louisville, KY 40202
<http://www.lrd.usace.army.mil>

Bourbon distillation is one of the fastest growing industries in Kentucky due to its economic impact, job creation, and tax revenue. These historic facilities were built in the floodplain because their operations require large quantities of water. Due to their historic nature, relocation is not a viable option.

BUDGET INFORMATION:

Authorized Total Project Cost	\$145,000
Non-Federal Sponsor Cost	\$0
Federal Cost	\$145,000
Funding Received to Date	\$22,500

CURRENT STATUS:

The Louisville District started the project with a kickoff meeting in December 2022. This effort will develop a Template Process that will assist the Commonwealth in helping non-residential facilities and structures to develop or update flood related EAPs to be more resilient as floods occur.

An EAP template will allow the Commonwealth to assist manufacturers in this industry, other industries, and non-residential facilities in developing their own EAP, further decreasing flood risk, and associated economic impacts due to flooding. One of the key topics at the 2022 Annual Bourbon Industry Conference was the need for distilleries to develop and/or improve EAPs for their facilities. In addition, the Commonwealth will host virtual workshops to interested facilities to help disseminate information on the process and can work with the Kentucky Association of Manufacturing and other statewide non-residential organizations to further disseminate the information.

Project POC:

John Bock
Deputy District Engineer
john.r.bock@usace.army.mil
(502) 315-6104

As of: 03/20/2023

U.S. Army Corps of Engineers – Great Lakes and Ohio River Division
600 Dr. Martin Luther King Jr. Place Louisville, KY 40202
<http://www.lrd.usace.army.mil>

Dam Safety, Kentucky

Kentucky Dams - Special Studies



Barren Lake Dam, KY

Current Phase: Study

Project Location: Barren Lake Dam, Buckhorn Lake Dam, Carr Creek Lake Dam, Cave Run Lake Dam, Green River Lake Dam, Nolin Lake Dam, Rough River Lake Dam, and Taylorsville Lake Dam (See next pages for site specific information)

Study and Program Information:

During normal operations, these dams are routinely inspected daily, weekly, and monthly by USACE Operations staff and annually by Louisville District Dam Safety staff. The dam also receives a comprehensive inspection every five years by a multi-discipline team of Louisville District engineers.

The USACE has instituted a “risk informed” dam safety program. The initial step was conducting a Screening Portfolio Risk Assessment (SPRA). A team of engineers conducted a screening level review of the dam’s construction, performance history, and instrumentation to evaluate current dam behavior, as well as economic consequences and the population at risk of potential dam failure. After the initial screening, the risk is re-evaluated every ten years as part of a routine Periodic Assessment (PA) in conjunction with the 5-year comprehensive site inspection. The findings are reviewed by the Dam Senior Oversight Group (DSOG) and a Dam Safety Action Classification (DSAC) rating is assigned based upon confirmed or unconfirmed dam safety issues and the combination of life or economic consequences should failure occur. The DSAC ratings are used to prioritize further study to confirm the proposed dam safety issues. If the DSAC rating is 1 through 3, an Interim Risk Reduction Measures (IRRM) Plan is established while further investigations are conducted and/or remedial actions are implemented as necessary.

Summarized Financial Data:

The Dam Safety Special Studies are part of a national program with funds distributed by the Corps of Engineers (USACE) Headquarters Dam Safety Office on a priority basis

The first study phase is an Issue Evaluation Study (IES) which confirms the dam safety issue. Should more information be necessary to confirm the issues, an IES Phase II study may be undertaken to gather the necessary data to reduce the uncertainty. The results of these studies are presented to the USACE Risk Management Center (RMC) and the DSOG. The results may indicate the need to progress to the next phase of study or reduce the DSAC rating for the dam. If the case is made that the dam needs remedial construction, then the project moves to the Dam Safety Modification Report (DSMR). The DSMR report analyzes potential remedial construction elements to determine the best “fix” to reduce the overall project risk. These studies and remedial construction are prioritized based upon the relative risk estimates at each stage to best make use of the available funding and resources.

Congressional Interests:

SEN Mitch McConnell (KY)
SEN Rand Paul (KY)

Individual Project Status:

Barren Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2007
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program.

Buckhorn Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2008
- * DSAC (Dam Safety Action Classification) Rating: Class 3
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 15 April 2009
- * IES (Issue Evaluation Study): In the queue for study. The IES Report will address concerns with unacceptable foundation conditions and associated seepage in order to remove uncertainty and lower project risk. This will determine if the work needs to continue to complete a full Dam Safety Modification Report (DSMR).
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program.

Carr Creek Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2008
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program.

Cave Run Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2009
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 27 July 2010
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4.
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program.

Green River Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2006
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * Note: The findings from the previous Phase 2 IES risk analysis were presented to the Risk Management Center (RMC) in November 2011 and to the Dam Senior Oversight Group (DSOG) in February 2012. The RMC and DSOG agreed with the report recommendation that the project be reclassified to a DSAC 3 based on the results of the risk analysis. Remedial construction is not warranted at this time. This structure has been reprioritized in the risk study queue. The DSAC rating was subsequently revised to a 4 in 2017 after a Periodic Assessment.
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program.

Nolin Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2006
- * DSAC (Dam Safety Action Classification) Rating: Class 3
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 8 April 2008
- * IES (Issue Evaluation Study): The findings of the Phase 2 IES risk analysis were presented to the Risk Management Center (RMC) in November 2011 and to the Dam Senior Oversight Group (DSOG) in February 2012. The RMC and DSOG agreed with the report recommendation that the project be reclassified to a DSAC 3 based on the results of the risk analysis. Other recommendations were to install additional instrumentation in right and left abutments, and to update the current IRRMs. Remedial construction is not warranted at this time. This structure has been reprioritized in the risk study queue.
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program.

Rough River Lake Dam, KY (See detailed Fact Sheet for additional information)

- * DSAC (Dam Safety Action Classification) Rating: Class 2
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 15 April 2008
- * A Dam Safety Modification Report (DSMR) was completed in July 2012. The DSMR addressed unacceptable foundation conditions and associated seepage and identified a need for major rehabilitation in order to remove uncertainty and lower project risk. The Project Delivery Team (PDT) reevaluated design features as part of a Supplement to the previously approved DSMR. ASA(CW) endorsed the Supplemental DSMR on 20 October 2021.
- * There is no emergency or imminent threat. However, failure of this dam from seepage/piping would result in catastrophic effects downstream including loss of life and significant economic losses.
- * FY 2024 Planned Activities: The project design is complete. Additional funds are needed to advertise and award the contract. Once it is determined that additional funds will be available, the Plans and Specifications will need to undergo an updated BCOES certification and the package will be prepared for advertisement. These activities can be completed in FY24 with funds currently on hand.

Energy Resilience Conservation Investment Program

Location and Description:

ERCIP projects are located at various Military Installations to include but not limited to: Fort Bliss, Fort Liberty, Fort Buchanan, Fort Cavazos, Fort Riley, Fort Sill, Fort Stewart, Lake City Army Ammunition Plant, Aberdeen Proving Ground, Anniston Army Depot, Joint Base Lewis-McChord, Camp Arijfan, Rock Island Arsenal, White Sands Missile Range, USAG Ansbach, Camp Buehring and Tooele Army Depot.

ERCIP is a subset of the Defense-Wide MILCON Program specifically intended to fund projects that improve energy and water resilience, contribute to mission assurance, save energy, and reduce DoD’s energy costs. ERCIP accomplishes this through construction of new, high-efficiency energy systems and technologies or through modernizing existing energy systems.

Authorization:

Authority for the ERCIP program is established by 10 USC § 2914

FY24 Activities:

Design, procurement, and construction management activities for projects in the ERCIP program.

FY25 Planned Activities:

Design, procurement, and construction management activities for projects in the ERCIP program.

FY26 Planned Activities:

Design, procurement, and construction management activities for projects in the ERCIP program.

Issues and Other Information:

Real property transfer/conveyance rules conflict with installation contracts with privatized utilities.

Summarized Financial Data:

LRL Current Military Program	
Estimated Federal Cost	\$1,197,645,000

Project	Description	Installation	PN	FY	PA
1	Construct Microgrid Controls, 690 kW PV, 275kW GEN, 570 kWh BESS	PR010 - Juana Diaz, Puerto Rico	95004	2022	\$ 12,190,000
2	Construct Microgrid Control System, 460 kW PV, 275kW GEN, 660 kWh BESS	PR013 – Ramey; Puerto Rico	95005	2022	\$ 10,120,000
3	Fort Liberty Emergency Water System	Fort Liberty	97484	2022	\$ 7,705,000
4	Install Microgrid, 750 kW PV Array, 750 kWh BESS, and 680k Generator Set	Conroe ASF	93347	2023	\$ 9,600,000
5	Camp Arijfan ERCIP Power Generation and Microgrid	Camp Arifjan, Kuwait	94849	2023	\$ 26,850,000
6	Ft. Riley ERCIP Power Generation and Microgrid	Fort Riley	98161	2023	\$ 25,780,000
7	Ft. Stewart HAAF ERCIP Power Generation and Microgrid	Fort Stewart HAAF	98162	2023	\$ 25,400,000
8	Ft. Cavazos Power Generation and Microgrid	Fort Cavazos (Hood)	99143	2023	\$ 31,500,000
9	Camp Ruehring FY24 Microgrid	Camp Buehring, KW	94933	2024	\$ 18,850,000
10	Ft. Liberty Camp MacKall FY24 Microgrid	Ft Liberty (Bragg) - Camp MacKall	98901	2024	\$ 10,500,000
11	Microgrid and Backup Power	Fort Buchanan	99144	2024	\$ 56,000,000
12	JBLM DES FY24 Microgrid	Joint Base Lewis-McChord	99146	2024	\$ 49,850,000
13	Lake City FY24 Microgrid CHP	Lake City Army Ammo Plant	99147	2024	\$ 80,100,000
14	Ft. Cavazos FY24 Microgrid	Fort Cavazos (Hood)	99288	2024	\$ 18,250,000
15	Ft. Sill FY24 Microgrid	Fort Sill	101861	2024	\$ 76,650,000
16	Critical Water Storage	Fort Liberty	98977	2025	\$ 25,000,000
17	Anniston Army Depot (ANAD) Power Generation and Microgrid	Anniston Army Depot	100945	2025	\$ 54,000,000
18	Rock Island Arsenal Power Generation and Microgrid	Rock Island Arsenal	100946	2025	\$ 67,500,000
19	JBLM FY25 Grey Army Airfield (GAAF)	Joint Base Lewis-McChord	100947	2025	\$ 38,300,000
20	Aberdeen Proving Grounds (APG) 2MW Microgrid	Aberdeen Proving Ground	100949	2025	\$ 29,400,000
21	Power Generation and Microgrid	White Sands Missile Range	80635	2026	\$ 38,000,000
22	Water Distribution Lines, Potable Industrial Area	Hawthorne Army Depot	86677	2026	\$ 5,000,000
23	Install Microgrid, 575 kW PV, 300kW/1200kW Bat Energy Stor System (BESS), and Two 200kW Elec Turb	Ft. Sheridan	94042	2026	\$ 5,600,000
24	Install Microgrid, 450kW PV, and 500kW/2000kWh Bat Energy Storage Sys (BESS)	Belgium	95066	2026	\$ 17,000,000
25	Power Generation and Microgrid	Camp Buehring, KW	96153	2026	\$ 21,300,000
26	Main Potable Water Lines for Resilience	Tooele Army Depot	98650	2026	\$ 18,500,000
27	Construct Potable Water Purification System at Las Casas Lake	Fort Buchanan	98709	2026	\$ 17,500,000
28	Install Microgrid, 4MW PV, 2MW/8MWh Bat Energy Stor Sys (BESS), and 2MW Generator	Ft. Liberty (Bragg)	100873	2026	\$ 38,000,000
29	Install Microgrid, 1MW PV, 500kW/3MWh Bat Energy Stor Sys (BESS), and 500kW Generator	Joint Base Lewis-McChord	101472	2026	\$ 39,000,000
30	Install Microgrid with PV, Battery Energy Storage System (BESS), and Generation	USAG Ansbach (Katterbach), Germany	102238	2026	\$ 26,000,000
31	Install Microgrid, PV, Battery Energy Storage System, and Generation	USAG Ansbach (Storck Barracks), Germany	102287	2026	\$ 27,000,000
32	Install 12 MW of Ground-Mounted Solar PV and 4MW/4MWh Bat Energy Stor Sys (BESS)	Ft. Sill	102300	2026	\$ 29,000,000
33	Install Microgrid, 500kW PV, 1MW/2MWh Bat Energy Stor Sys (BESS), and 2MW Generator	Ft. Liberty (Bragg)	102321	2026	\$ 15,500,000
34	Install Microgrid, 2.5 MW PV, 5 MWh Battery Energy Storage System (BESS)	Parks RFTA	102712	2026	\$ 37,000,000
35	Install 2.4 MW PV and 10 MWh Battery Energy Storage System	Camp Roberts Enclave	102945	2026	\$ 60,000,000
36	Power Generation and Microgrid	Ft. Carson	102984	2026	\$ 58,000,000
37	Redstone Electric Power, Microgrid	Redstone Arsenal	103043	2026	\$ 33,000,000
38	Install 1750 kW of Natural Gas Generators and Microgrid	Fort Bliss	93031	2026	\$ 7,100,000
39	DPTMS Simulation Training Campus Microgrid	Fort Bliss	98799	2026	\$ 8,600,000
40	5 MW NG Generator - Resiliency, McGregor / Westbrook Ranges	Fort Bliss	98991	2026	\$ 12,000,000
41	5 MW NG Generator - Resiliency, East Bliss Substation	Fort Bliss	99008	2026	\$ 11,000,000

Taylorsville Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2009
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * FY2024 Planned Activities: Routine O&M surveillance and monitoring program