

# **MCCLELLAN-KERR ARKANSAS RIVER NAVIGATION SYSTEM (MKARNS)**

## **12-FT DEEPENING**

### **INLAND WATERWAYS USERS BOARD MEETING #97**

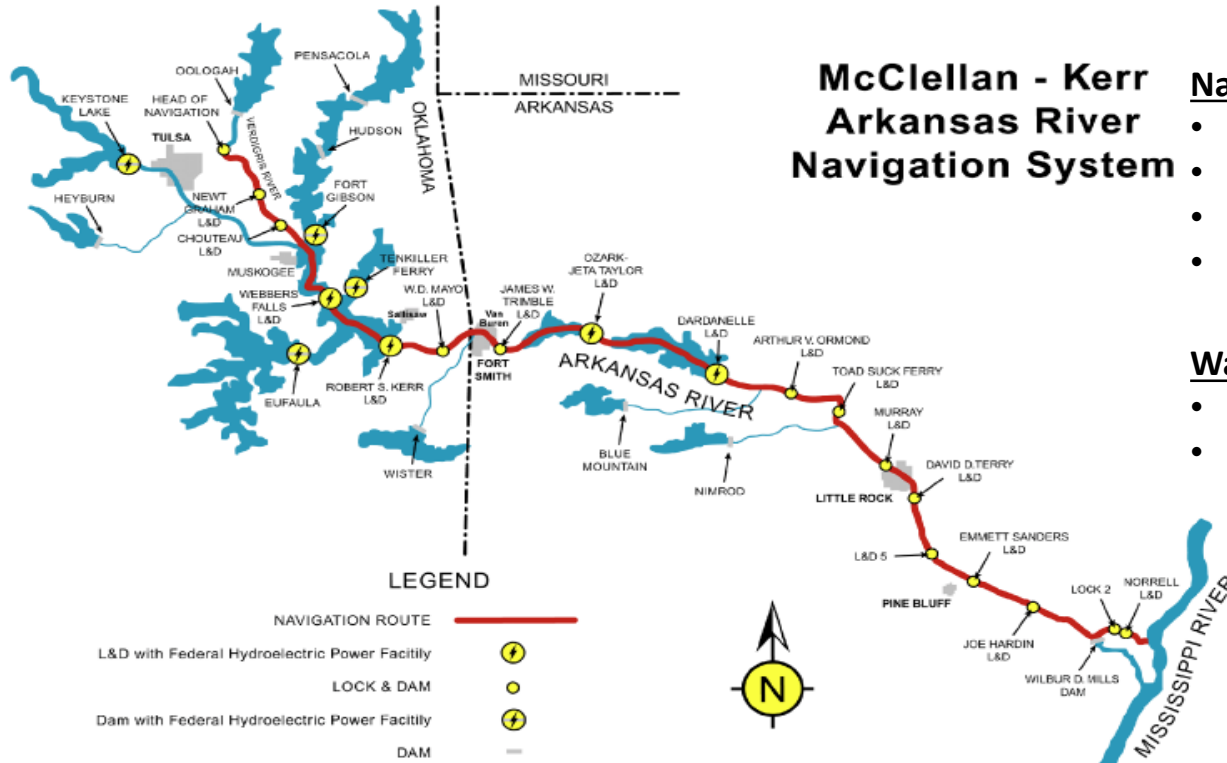
**Craig Pierce  
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Little Rock District (SWL)  
16 Aug 2022**



**US Army Corps  
of Engineers®**



# PROJECT LOCATION AND VALUE TO THE NATION

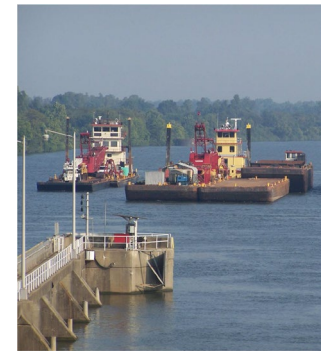


## Navigation numbers:

- 445-miles of navigation channel.
- 9' depth x 150'-300' width
- 18 Locks (110' wide x 600' long)
- 4 hydropower facilities

## Waterborne commerce:

- 10,932,172 tons annually
- equivalent of 437,287 trucks or 109,322 railcars, respectively





## AUTHORIZATION

### MCCLELLAN-KERR ARKANSAS NAVIGATION SYSTEM



The Rivers and Harbors Act of 1946 authorized the development of the Arkansas River and its tributaries for the purposes of navigation, flood control and hydropower upstream of Little Rock, Arkansas. Downstream of Little Rock, it was authorized for the purposes of navigation and irrigation.

*“Arkansas River and tributaries, Arkansas and Oklahoma: The multi-purpose plan recommended in the report of the Chief of Engineers dated September 20, 1945, and letter of the Chief of Engineers dated March 19, 1946, is approved, and partial accomplishment of said plan there is hereby authorized to be appropriated the sum of \$55,000,000.”*



# AUTHORIZATION

## MCCLELLAN-KERR ARKANSAS NAVIGATION SYSTEM



- Section 136 of the Energy and Water Development Appropriations Act of 2004, authorized a project depth of 12 feet.

*" The McClellan-Kerr Arkansas River navigation project, authorized under the comprehensive plan for the Arkansas River Basin by Section 3 of the Act entitled "An Act authorizing the construction of certain public works on rivers and harbors for flood control, and for other purposes", approved June 28, 1938 (52 Stat.1218) and Section 10 of the Flood Control Act of 1946 (60 Stat. 647) and wherever applicable the provisions of the River and Harbor Act of 1946 (60 Stat. 634) and modifications by Section 108 of the Energy and Water Development Appropriations Act, 1988 (101 Stat. 1329-112), is further modified to authorize a project depth of 12 feet."*

- Water Resources Development Act of 2020, Section 310 of Public Law 116-260, authorized the MKARNS 12-Ft Channel to move forward upon receipt of funds without a new start.

*"Any Federal funds, regardless of the account from which the funds were provided, used to carry out construction of the modification to the McClellan-Kerr Arkansas River Navigation System, authorized in section 136 of the Energy and Water Development Appropriations Act, 2004 (117 Stat. 1842), shall be considered by the Secretary as initiating construction of the project such that future funds will not require a new investment decision."*



# PROJECT TIMELINE THROUGH 2022

- FY04 Project Authorized to 12-Ft
- FY05 Chief's Report Signed (\$158,400,090/Escalated in FY22 \$274,000,000)
- FY06-FY11 O&M Appropriations received to begin Construction on Project (benefits to both 9' and 12' channel)
- FY21-FY22 Received \$674,000 (Investigations Account)
  - Updated Cost Estimate (Mar 2022) – Under Review
  - Post Authorization Report (Aug 2022)
- FY22 IIJA Addendum \$92.6M (Construction Account)
  - Supplemental EA (Jun 2023)
  - Certified Cost Estimate
  - Initiate Project Planning and Pre-Construction Engineering and Design



# NOTIONAL PROJECT APPROACH/SCHEDULE (VALIDATED BY USACE COMMITTEE ON RIVER ENGINEERING)



**SUMMARY:** Design and implementation of 12' channel in phases based on shoaling risk and technical risk; allow structures to self-dredge, minimizing project dredging needs. Adaptive management: additional structures and dredging/maintenance dredging only where needed based on monitoring (reduce project costs). Achieve NAV benefits early.

	FY22	FY23	FY24	FY25	FY 26	FY27	FY28	FY29	FY30	FY31	FY32
Phase 1	Phase 1										
Supplemental EA, Cultural PA, Section 106											
SWL Pools with Historic Shoaling (Structures)	Model/Design	Awd	Construction								
SWT Immediate Need Disposal Sites (Gov Owned)	Model/Design	Awd	Construction								
Phase 2- SWL Pools (Structures)/SWL & SWT Dredge Disposal Sites	Phase 2										
Phase 3- SWL & SWT Pools (Structures)/SWT Disposal Sites/SWL Dredging	Phase 3										
Phase 4-SWT (Structures)/SWT Disposal Sites/SWL & SWT Dredging					Phase 4						



# PHASED APPROACH DETAIL (NOTIONAL)



## Phase 1 (Mostly Funded with \$92.6M IIJA):

- Project Planning
- NEPA
- System-wide data collection and modeling
- Certified Cost Update
- Design and implementation (D&I) of structures in pools with highest shoaling risk/low technical risk
- Design of structures in pools with moderate risk of shoaling
- D&I of critical disposal sites (e.g. Arkansas Post canal)
- Monitoring and adaptive management

## Phase 2 (Funding Required):

- D&I of additional disposal sites
- Implementation of structures in pools with moderate risk of shoaling
- Real Estate
- Design of structures determined needed in pools with lower risk of shoaling

## Phases 3 – 4 (Funding Required):

- D&I of additional disposal sites and structures
- Real Estate
- Dredging (Phase 4)



# PROJECT ISSUES AND CHALLENGES



## NEPA

- Cultural Programmatic Agreement
  - 18 federally recognized tribes
  - 2 state historic preservation offices
  - 1 state agency
- Section 106-Assessment for National Register of Historic Places

## Real Estate Acquisition

- 20 sites government owned
- 19 sites partially government owned
- Of the 39 sites, 5 are new proposed sites





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