



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS  
441 G STREET, NW  
WASHINGTON, DC 20314-1000

CECW-ZB

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY (CIVIL WORKS)

SUBJECT: Memphis Metropolitan Stormwater – North DeSoto County Feasibility Study, DeSoto County, Mississippi, Flood Risk Management and Ecosystem Restoration Post Authorization Change Report

1. A report from the Chief of Engineers was signed on 18 December 2023 to provide flood risk management (FRM) and aquatic ecosystem restoration (AER) recommendations for the Memphis Metropolitan Stormwater – North DeSoto County Feasibility Study, DeSoto County, Mississippi at a total project cost of \$68,146,000 (October 2023 price levels). The project was subsequently authorized for FRM and AER in section 1401(5) of the Water Resources Development Act (WRDA) of 2024, at a total cost of \$26,738,000 (October 2023 price levels), which was only the total cost of the FRM features of the project. The purpose of this memorandum and Post Authorization Change Report (PACR) is to correct an inadvertent error omitting the cost of the AER features from the project authorization.

2. This PACR presents an updated cost estimate of the authorized project to support the authorization of a new project cost. This PACR documents the need to increase the total project cost from \$26,738,000 (October 2023 price levels) to \$72,832,000 (October 2025 price levels) for the authorized project. This increase in total cost accounts for the AER features of the project, for which costs were previously omitted from the total project cost set forth in WRDA 2024. The functional increase in total cost, \$4,686,000, is attributed completely to price level escalation from fiscal year 2024 to fiscal year 2026.

3. Authorized Project. The project was authorized in WRDA 2024 for the purposes of FRM and AER in North DeSoto County, MS. The authorized plan of improvement for FRM is comprised of a system of structural and nonstructural features:

a. 3,000 linear foot levee and floodwall located on the southeast side of Highway 51 and Goodman Road, in an area known locally as Bullfrog Comer. The NED plan would consist only of this feature.

b. Dry floodproofing of 21 commercial and 14 residential (apartment complex) structures. The dry floodproofing, while not incrementally justified based on NED benefits, provides risk reduction to structures in an economically disadvantaged and historically underserved community located on the eastern side of Highway 51 and Goodman Road in Horn Lake, Mississippi.

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The authorized plan of improvement for AER includes the following features:

c. A comprehensive system of 74 bank stabilizing grade control structures (GCS) paired with lateral stone toe protection, and riser pipes.

d. 327 acres of riparian restoration along Camp, Cane, Hurricane, Johnson, Lick, Mussacuna, Nolehoe, Nonconnah, Red Banks, and Short Fork Creeks. This feature is considered nonstructural and nonmechanical.

4. Post-Authorization Change. The project has not received appropriations and construction activities have not yet begun. Based on October 2025 price levels, the new estimated project first cost is \$72,832,000. The allocated costs to FRM and AER are as follows.

a. The new estimated project first cost for the FRM features is \$28,427,000. The project first cost includes the value of lands, easements, rights-of-way, relocations (LERR), and dredged material placement area improvements estimated to be \$2,587,000. Cost sharing is applied in accordance with the provisions of Section 103 of the Water Resources Development Act of 1986 (33 U.S.C. § 2213) as follows: the federal share of the project first cost initial construction for the FRM features is estimated at \$18,478,000 and the non-federal share, which includes the cost of LERR and dredged material placement area improvements, is estimated at \$9,949,000 which equates to 65 percent federal and 35 percent non-federal.

b. The new estimated project first cost for the AER features is \$44,405,000. The project first cost includes the value of lands, easements, rights-of-way, relocations (LERR), and dredged material placement area improvements estimated to be \$7,738,000. Cost sharing is applied in accordance with the provisions of Section 103 of the Water Resources Development Act of 1986 (33 U.S.C § 2213), as follows: the federal share of the project first cost for initial construction for the AER features is estimated at \$28,863,000 and the non-federal share is estimated at \$15,542,000, which equates to 65 percent federal and 35 percent non-federal. The non-federal sponsor will receive credit for the value of LERR, included in the estimate, toward the non-federal share.

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5. Recommendation. I report that the project remains engineeringly feasible, environmentally acceptable, and justified both economically and based on the benefits provided. I recommend this report be transmitted to Congress as a basis for increasing the authorized project cost of the Memphis Metropolitan Stormwater – North DeSoto County Feasibility Study, DeSoto County, Mississippi, Flood Risk Management and Ecosystem Restoration Project to \$72,832,000 at October 2025 price levels.



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