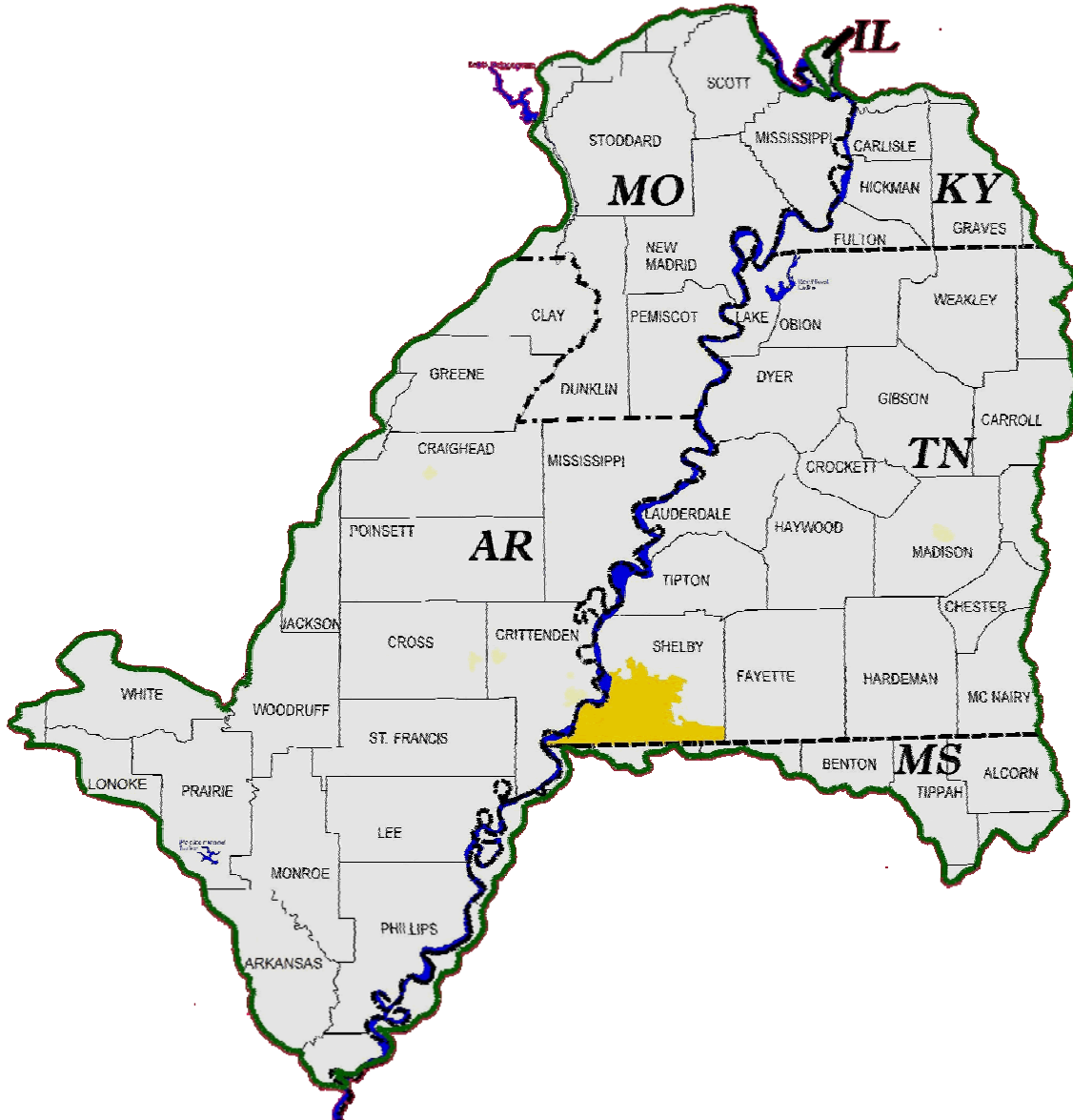




US Army Corps  
of Engineers  
Memphis District



# MEMPHIS DISTRICT



## TENNESSEE FACT SHEETS AND MAPS



*One Corps Serving The Armed Forces and The Nation*





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**Lateral D  
Failure at  
Sewer Siphon  
Protection**

**Grade Control  
Structure**

**Study Name:** Germantown, Lateral D, Tennessee

**Authority:** Flood Control Act of 1946, Sec. 14, as amended; Water Resources Development Act of 2007, Sec. 1003

**Location and Description:** The study area is located in the city of Germantown, in Shelby County, Tennessee, about 3,500 feet east of the intersection of Farmington Boulevard and Kimbrough Road. Erosion problems on Lateral D are a growing concern for the City of Germantown because two major infrastructure crossings (a force main interceptor sewer line and a box culvert under Farmington Boulevard) could become further endangered with the next big flood event. The local sponsor is the City of Germantown. In a related project, the City of Germantown with involvement from the Tennessee Department of Transportation is currently designing a highway project, the Wolf River Boulevard Extension project that will provide a grade control structure at the outlet of Lateral D into the Wolf River. This structure will provide a stable outlet and may arrest a severe erosion issue. However, this future stabilize outlet does not provide relief directly to either infrastructure crossing.

**Status:** \$100,000 was allocated in June 2007 to initiate feasibility studies and the study is scheduled to be completed in early 2009. The proposed project consists of an energy dissipating stilling basin at the box culvert and rock placement at the sewer line. The Corps' Section 14 Feasibility Study efforts have been temporarily put on hold (until the fall of 2008) when the City's design for the grade control feature associated with the Wolf River Boulevard Extension project is complete. Once that control structure is designed, data about future channel conditions critical to the Corps' Section 14 project will be available, and the Corps can proceed with the Feasibility Study.

**Memphis District POC:**

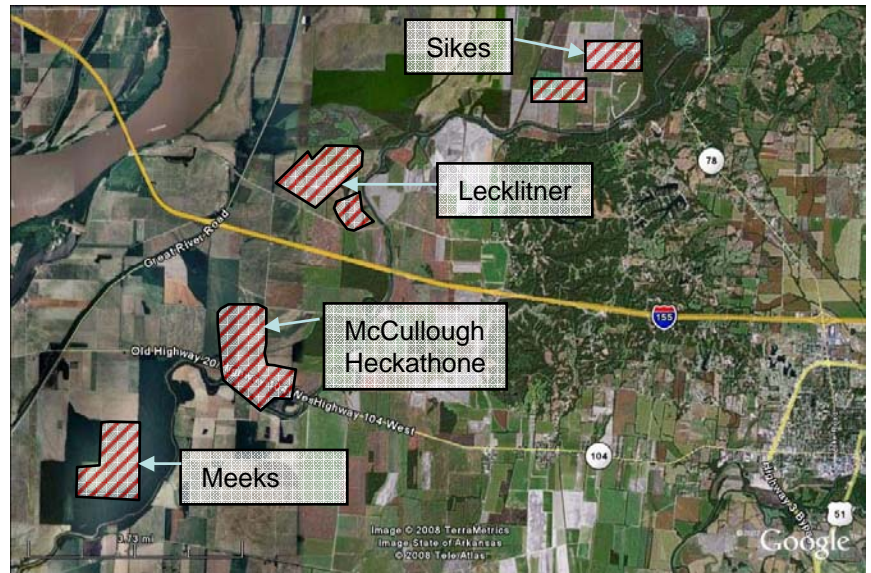
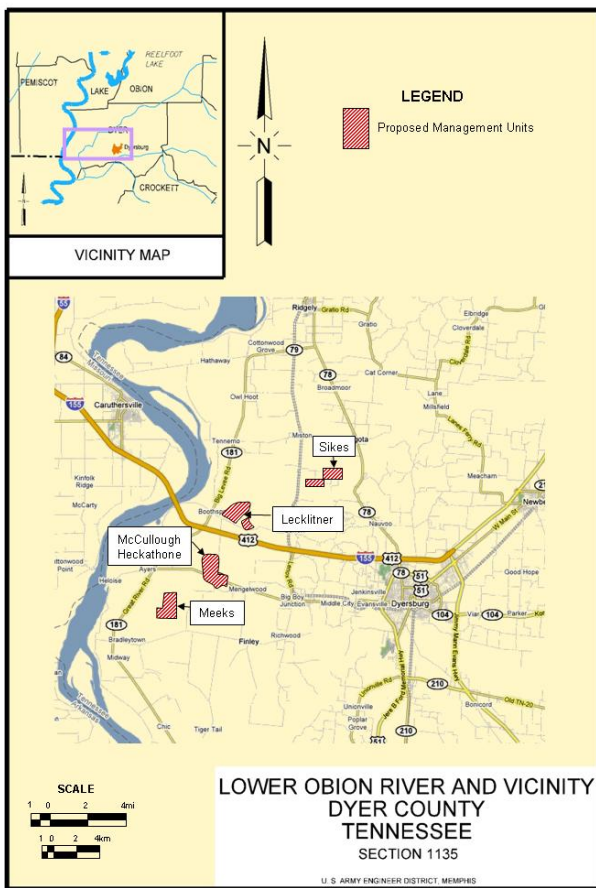
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**As of:** June 2008





**Project Name:** Lower Obion River and Vicinity, TN

**Authority:** Water Resources Development Act of 1986, Sec. 1135 (b)

**Location and Description:** The project consists of the acquisition and development of fish and wildlife habitat on about 3,500 acres. Four tracts of land have been identified for fish and wildlife habitat restoration along the Obion River in Dyer County, Tennessee. The sites are located in western Dyer County with the Mississippi River levee on the west, and the Obion River on the east and the south. The sites are approximately 7 miles west of Dyersburg, Tennessee, and 1 mile east of the Mississippi River. The sponsor is the Tennessee Wildlife Resources Agency (TWRA).

**Status:** Construction of this project was initiated in September 2007 and is scheduled to be completed in 2009.

**Project Cost:** The estimated cost of this project is \$4,841,000 of which \$3,634,000 is Federal cost and \$1,208,000 is the responsibility of the non-Federal sponsor.

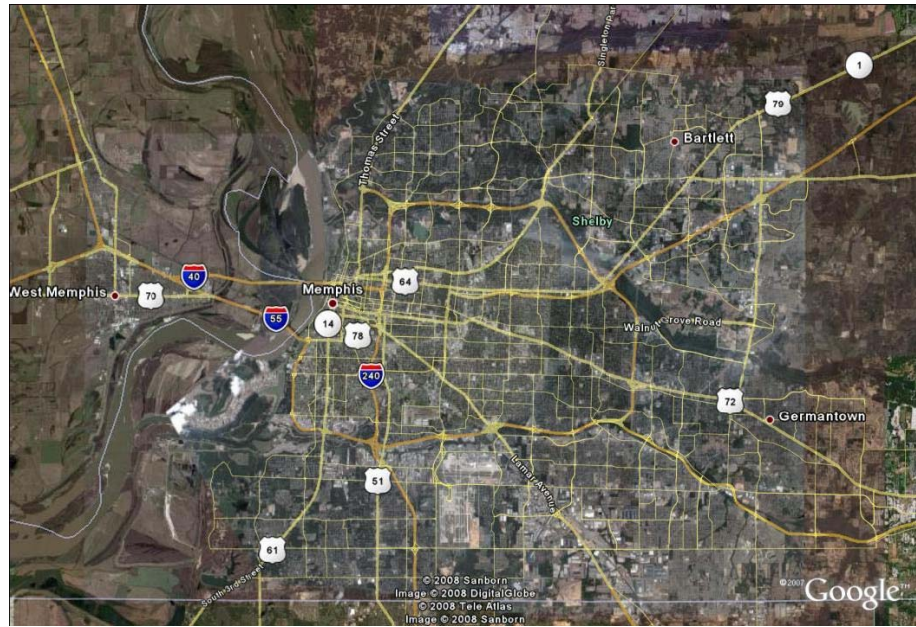
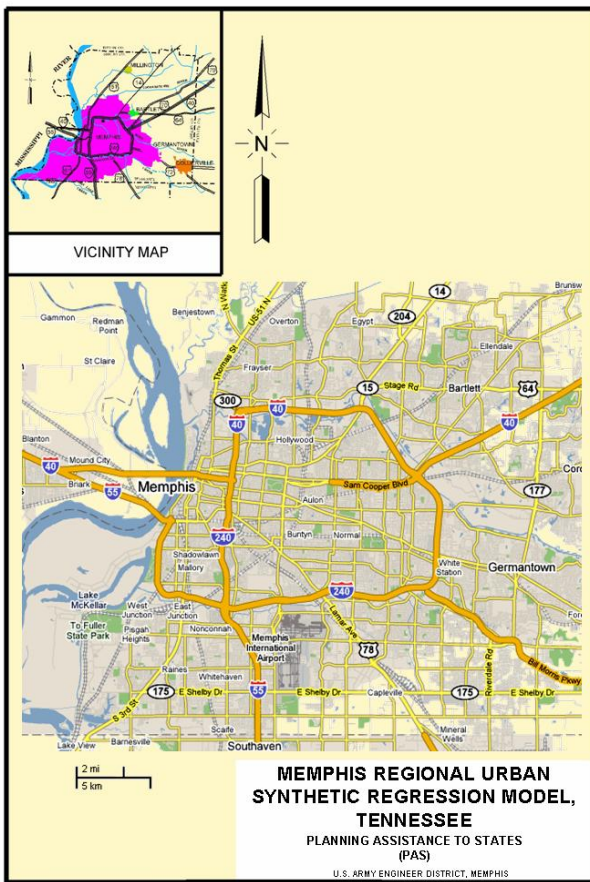
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**As of:** June 2008



**Study Name:** Memphis Regional Urban Synthetic Regression Model, Tennessee

**Authority:** WRDA 1974, Sec. 22

**Location and Description:** This study is a joint venture with the City of Memphis, located in Shelby County, Tennessee. The study consists of developing a simple-to-use technical planning tool that has the ability to quickly check developer submissions of storm water frequency flows, detention basin performance, forecast a flood flow during or just prior to a major rainfall event, and provide information to alert and evacuate flood threatened areas. The City of Memphis is the non-Federal sponsor.

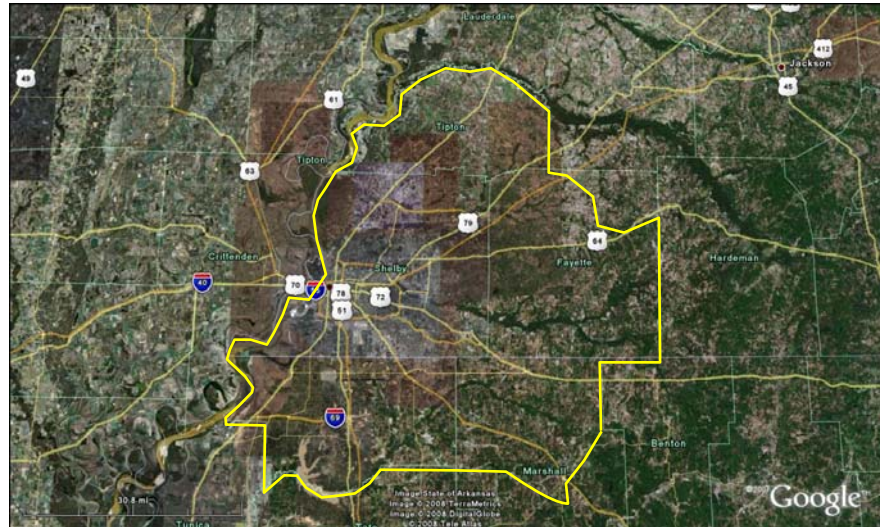
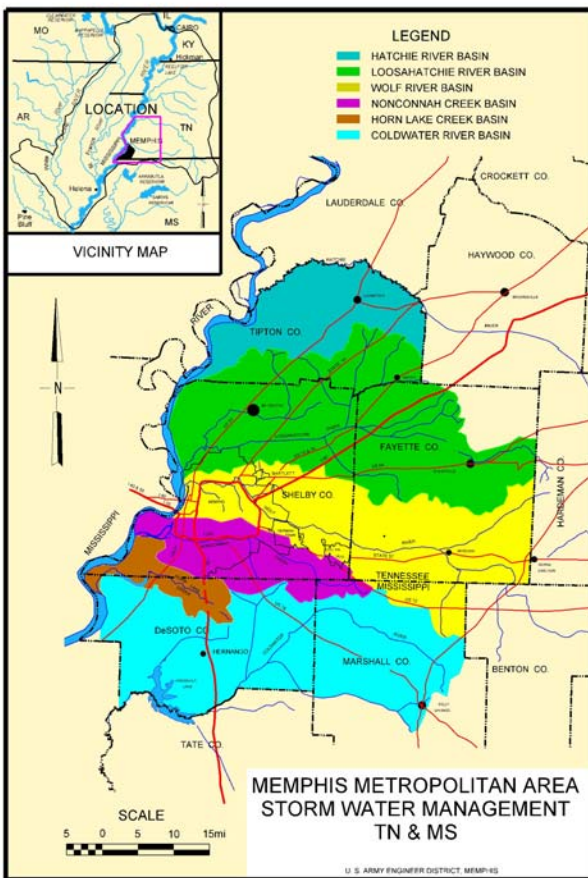
**Status:** FY 2007 funds of \$62,500 will be used to initiate the study for the urban synthetic regression model for the City of Memphis, Tennessee. FY 2008 funds of \$87,500 will be used to complete the Planning Assistance to States Study. The non-Federal sponsor has indicated financial capability and their willingness to sign a Planning Assistance to States Agreement. The study is a multi-year study and expected to be completed in phases.

**Study cost:** The preliminary estimated cost of the project study is \$300,000 of which \$150,000 is Federal cost and \$150,000 is the responsibility of the non-Federal sponsor.

**Memphis District POC:**  
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**As of:** February 2008





**Study Name:** Memphis Metropolitan Area Storm Water Management, Tennessee & Mississippi

**Authority:** U.S. House Committee on Transportation and Infrastructure Resolution dated 7 March 1996.

**Location and Description:** The study area includes all or parts of five counties: Fayette, Shelby, and Tipton in Tennessee; DeSoto and Marshall in Mississippi. The area encompasses all or parts of six major drainage basins, covering approximately 2,600 square miles. The purpose of the study is to evaluate the need for improvements for flood risk management, ecosystem restoration, water quality, and related purposes associated with storm water runoff and watershed management in the area. Record rainfalls in 2001 and 2002 prompted the need to comprehensively address flooding and storm water management problems within the Memphis Metropolitan study area. Approximately 7 inches of rain fell in a 24-hour period in November 2001 prompting evacuations in the Hillshire and Wheel Estates subdivisions and caused street flooding and road closures. Initial flood damage estimates from the 2001 and 2002 rainfall events are \$1,000,000 for residential and business properties in the study area and \$3,000,000 for flood-related damages to bridges and utilities. The need for storm water management was not fully addressed under the Memphis Metropolitan Area reconnaissance study completed in 1999. The Metro Area Steering Committee has been re-formed to address these water resources problems. Potential co-sponsors are the cities and counties included in the Metro Area Steering Committee and the Chickasaw Basin Authority.

**Status:** The reconnaissance study was initiated in FY 2006 with estimated Federal cost of \$300,000. Five drainage basins identified by Shelby and Tipton County officials: Grays Creek, Marys Creek, Beaver Creek, Cole Creek, and Hebron Creek were investigated in 2006 and 2007 and determined not to have Federal interest in more detailed studies. However, two sites along Grays Creek will be considered for possible CAP Section 14, emergency bank protection projects. FY 2008 funds of \$30,000 are being used to complete the reconnaissance study by investigating flood risk management problems in the Pidgeon Industrial Ditch area and opportunities for environmental restoration within the five-county study area. The reconnaissance study is scheduled to be completed in February 2009.

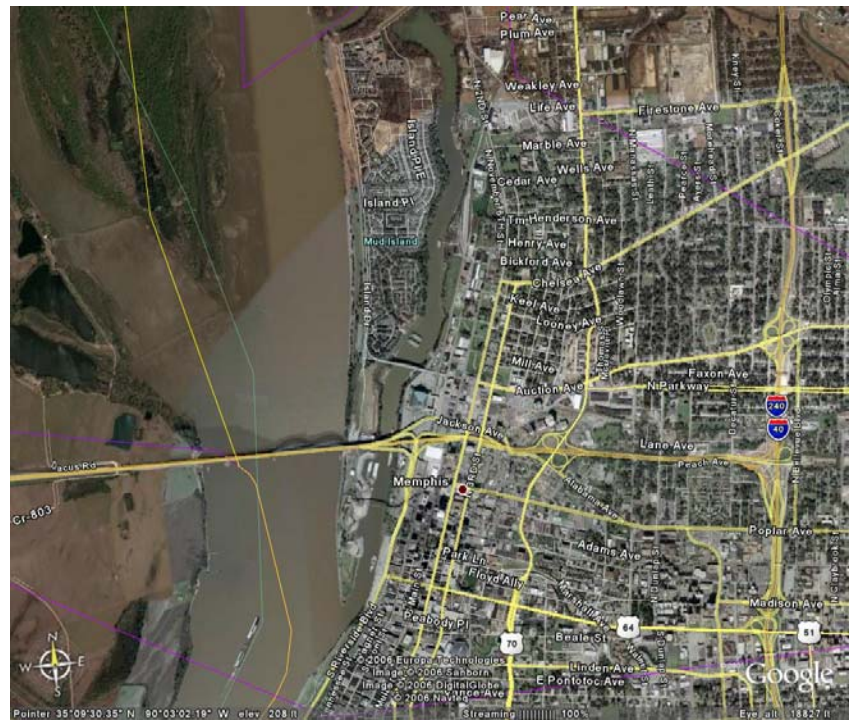
**Project cost:** The estimated cost of the project feasibility study is \$2,000,000 of which \$1,000,000 is Federal cost and \$1,000,000 is the responsibility of the non-Federal sponsor, allocation for FY 2008 of \$116,000.

**Memphis District POC:**

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**As of:** February 2008



**Study Name:** Memphis Riverfront Development, Tennessee

**Authorization:** WRDA 1974, Sec. 22

**Location and Description:** The Memphis Riverfront runs approximately twelve linear miles along the Mississippi River and Wolf River Harbor in downtown Memphis, in Shelby County, TN. The Memphis Riverfront Master Plan, which maps out the development of the Memphis riverfront, including Mud Island and the Wolf River Harbor, is continuing to be refined through detailed studies of individual features of the Master Plan. The study consists of development of a riverfront improvement and land use utilization plan for Mud Island and Wolf River Harbor. Features of the study include flood control, erosion, land use, recreation, stormwater management, conceptual designs, and cost estimates. The Riverfront Development Corporation was chartered by the City of Memphis in November 1999, and is the local sponsor.

**Status:** \$595,000 is available to initiate this study. The Corps is working with Riverfront Development Corporation (RDC) to identify the scope and schedule of the study phases, which will depend on RDC's ability to provide matching funds. RDC is scheduled to provide up to \$250,000 in matching funds after July 2008 (the beginning of the City's fiscal year). RDC understands the remaining \$345,000 federal monies may be returned to the PAS Program for utilization in other studies. This study is a multi-year study and will be completed in phases.

**Project cost:** The estimated cost of the project study is \$1,190,000 of which \$595,000 is Federal cost and \$595,000 is the responsibility of the non-Federal sponsor.

**Memphis District POC:**

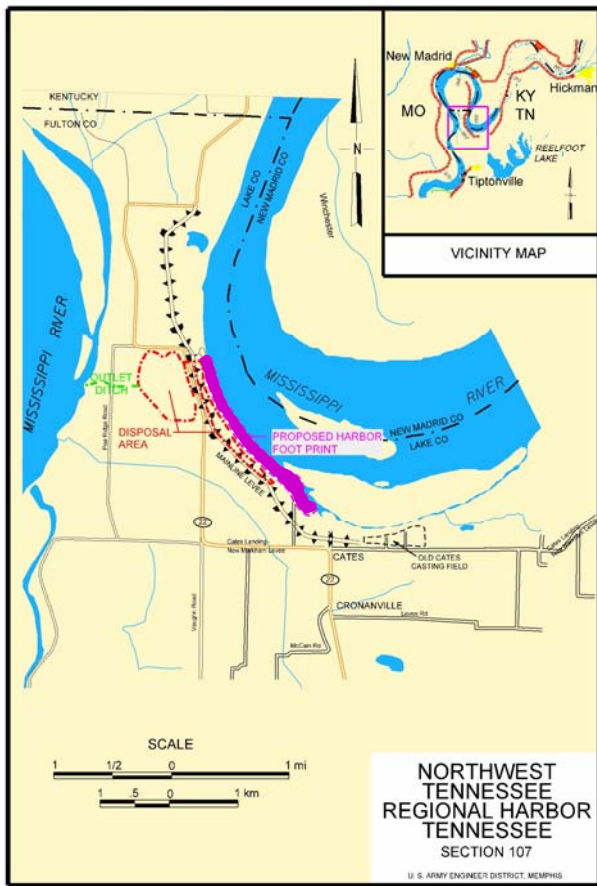
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**As of:** February 2008





**Proposed Northwest Tennessee Regional Harbor, TN**



A backhoe loads excavated earth into a large off-road dump truck.



Pipes and concrete forms for one of the sediment containment outlet structures

**Project Name:** Northwest Tennessee Regional Harbor, Tennessee

**Authority:** River and Harbor Act of 1960, Sec. 107, as amended.

**Location and Description:** The project is located at Mississippi River Mile 900.0 on the left descending bank in Lake County near Tiptonville, Tennessee. This project provides for a 9,000 foot long and 130 foot width slack water harbor at approximately river mile 900 known as Cates Landing. The sponsor is the Northwest Tennessee Regional Port Authority.

**Status:** Construction was initiated in October 2006. A contract for construction of two dredge containment areas was awarded 20 September 2007 and construction is currently scheduled to be completed June 2008. The next item of work will be construction of the harbor via a dredging contract which is scheduled for award in April 2008 and completion in October 2008. Riprap placement, finish bank grading, and turbing will be completed in FY 2009 as river conditions allow. FY 2009 funds if available they could be used to offset the amount of non-Federal contributions currently required to complete the project, pending WRDA implementation guidance.

**Project cost:** The estimated cost of the project Design & Construction is \$9,695,000 of which \$7,000,000 is Federal cost and \$2,695,000 is the responsibility of the non-Federal sponsor.

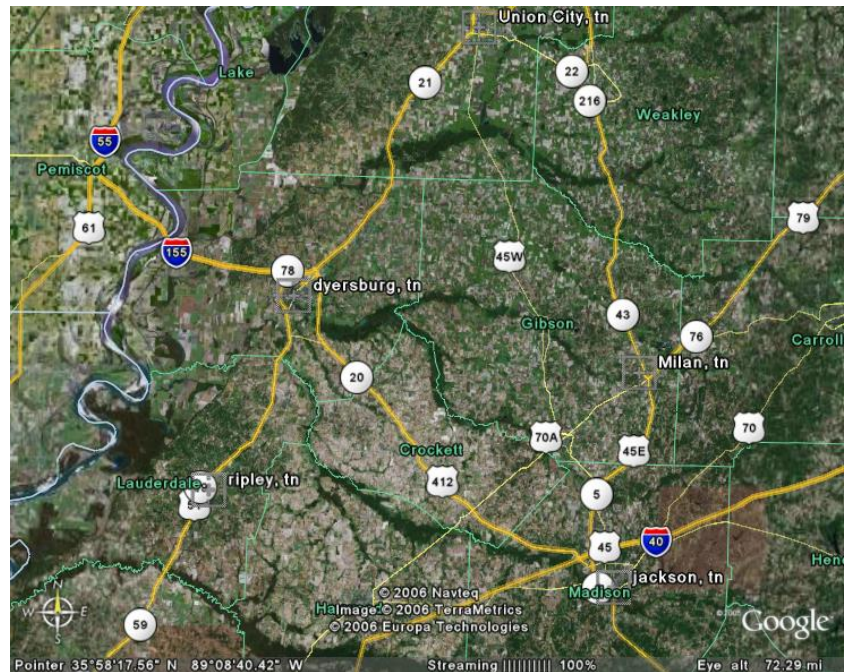
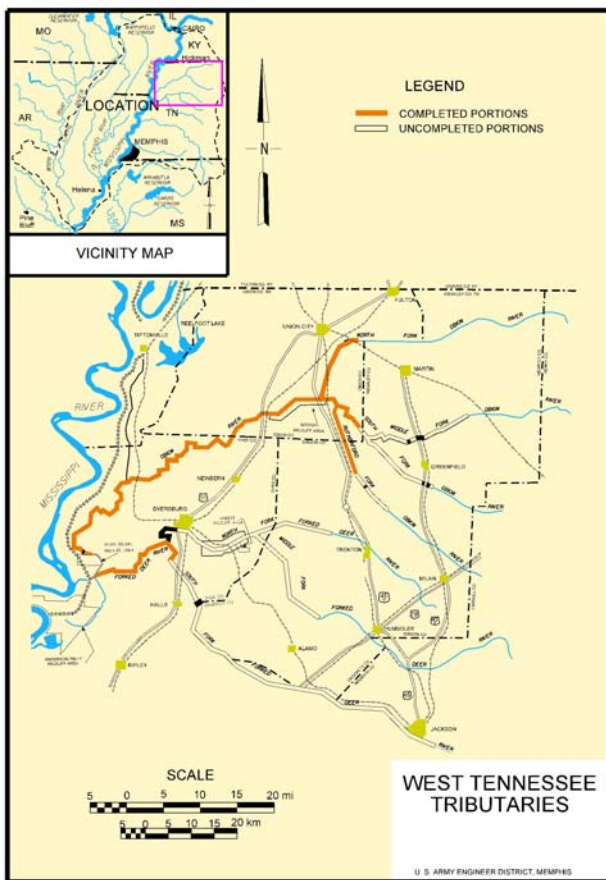
**Memphis District POC:**

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**As of:** February 2008





**Project Name:** West Tennessee Tributaries, Tennessee

**Authority:** The Flood Control Act of 1948, the Rivers and Harbors Act of 1966, and the WRDA 1974; WRDA 1976.

**Location and Description:** The project is a flood control project located along the Obion and Forked Deer Rivers and tributaries in West Tennessee counties of Weakley, Madison, Gibson, Obion, Dyer, Crockett, Lauderdale and Haywood. The project consists of 225 miles of channel improvements on the Obion and Forked Deer Rivers; 7.6 miles of levees to provide adequate drainage outlets and reduce flooding; 174 water control structures, 216 erosion control structures, 37 miles of water management connector channels to restore bottomland hardwoods and fisheries; and the acquisition of 32,000 acres of mitigation lands. The project sponsor is the state of Tennessee acting through the West Tennessee River Basin Authority (WTRBA).

**Status:** Only 93 miles of the authorized channel improvements have been completed and 13,527 acres of the mitigation lands purchased. There have been a number of obstacles associated with this project, including denial of water quality by the state of Tennessee and lawsuits challenging the EIS. In 1992, the state of Tennessee asked that the project be reactivated with efforts focused on developing an environmentally sensitive design. FY 2008 allocation funds of \$295,000 are being used to plan the restart of a general reevaluation report using more environmentally acceptable construction procedures. In FY 2009 funds could be used to continue this work. The preliminary estimate of the reevaluation cost is \$11,000,000 and that it will take approximately 4 years to complete, pending the funding stream.

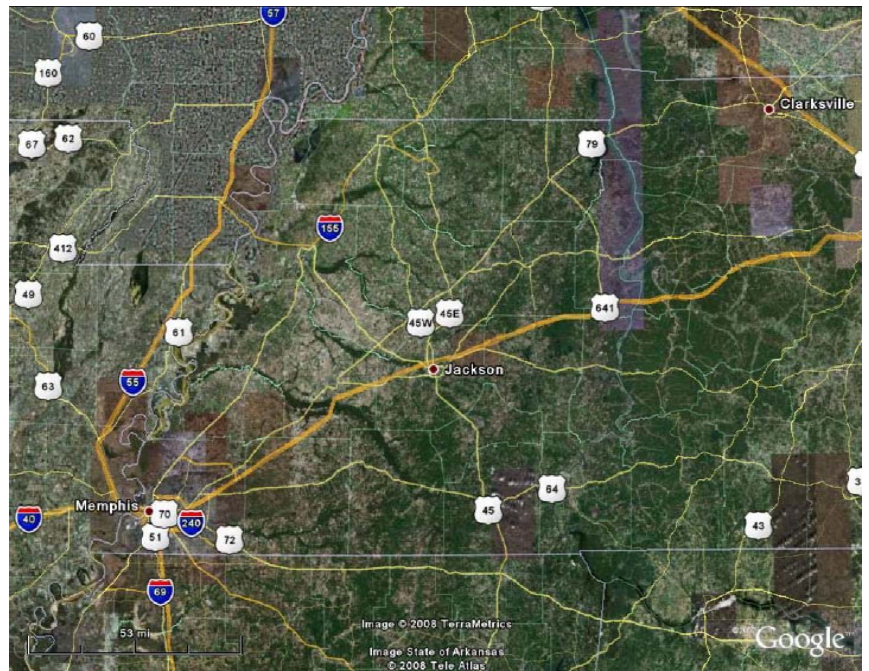
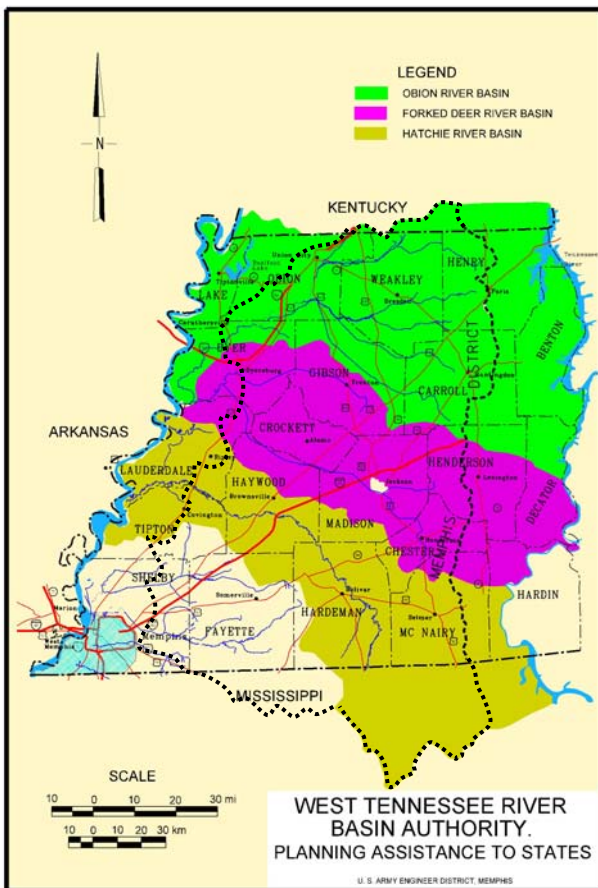
**Project cost:** The estimated cost of the project construction at Oct 2006 price level is \$182,000,000 of which \$176,000,000 is Federal cost and \$6,000,000 is the responsibility of the non-Federal sponsor.

**Memphis District POC:**

**Name:** Leonard Jones

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**As of:** February 2008



**Study Name:** West Tennessee River Basin Authority, Tennessee

**Authorization:** WRDA 1974, Sec. 22

**Location and Description:** This study is a joint venture with the West Tennessee River Basin Authority (WTRBA) and the State of Tennessee and is located in portions of Weakley, Henry, Gibson, Carroll, Benton, Madison, Henderson, Decatur, Hardeman, Chester, McNairy, and Hardin Counties in western Tennessee. Planning will be limited to creek-sized upland watersheds that are tributaries to the Obion, Forked-Deer, Hatchie Rivers, which cause significant economic or environmental damages due to the erosion, transport and deposition of excessive amounts of sand in the receiving rivers. The WTRBA, which is administratively attached to the Department of Environment and Conservation, is the non-Federal sponsor.

**Status:** Carryover funds of \$75,000 are being used to complete Phase 2 of the study, which consists of an inventory and mapping of erosion and deposition problems within the Forked Deer and Hatchie River Basins. It will also consist of problem interpretation and solution planning for all three river basins. The final report will outline the findings of the study and is scheduled to be completed in July 2008. There are no additional funding need in FY 2009.

**Project cost:** The estimated cost of the project study is \$150,000 of which \$75,000 is Federal cost and \$75,000 is the responsibility of the non-Federal sponsor.

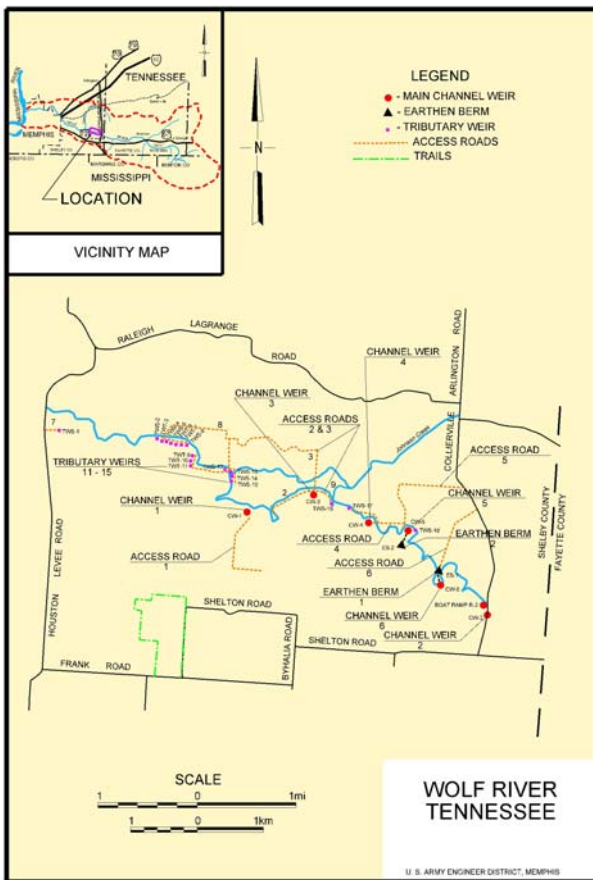
**Memphis District POC:**

**Name:** Elaine E. Newbaker-London

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**As of:** February 2008





**Completion of Channel Stabilization Weir CW-6**

**Project Name:** Wolf River, Memphis, Tennessee

**Authority:** WRDA 2000, Sec. 101

**Location and Description:** The Wolf River is located in Hardeman, Fayette, and Shelby Counties, TN, and Tippah, Marshall, and Benton Counties, MS. The authorized project consists of six main channel weirs and eighteen tributary weirs for grade stabilization, two cutoff prevention weirs on the main channel, trails, a 2,100-acre wildlife corridor in Shelby County, and three boat ramps (two in Shelby County and one in Fayette County.) Estimated annual benefits include over 2,144 annual habitat unit values and \$414,000 in recreational benefits. The project sponsors are Shelby County, TN and the Chickasaw Basin Authority.

**Status:** To date, all of the main channel stabilization weirs, one tributary weir, one cutoff prevention berm, and associated access roads have been constructed. FY 2007 funds were used to complete plans and specifications and fully fund construction for Item 3 (five tributary weirs). The contract for this work was awarded in July 2007 and construction was initiated in August 2007. Two of the five tributary weirs for this item have been constructed. Rainfall events have slowed construction with expected completion in the fall of 2008. This work will complete the ecosystem restoration features of the project. Allocation for FY 2008 funds of \$197,000 are being used to complete design and construction of approximately two miles of trails and lateral crossings (the easternmost segment proceeding west from Collierville-Arlington Road), initiating the recreation portion of the project. FY 2009 if funds are available they could complete plans and specifications and fully fund construction of the three boat ramps.

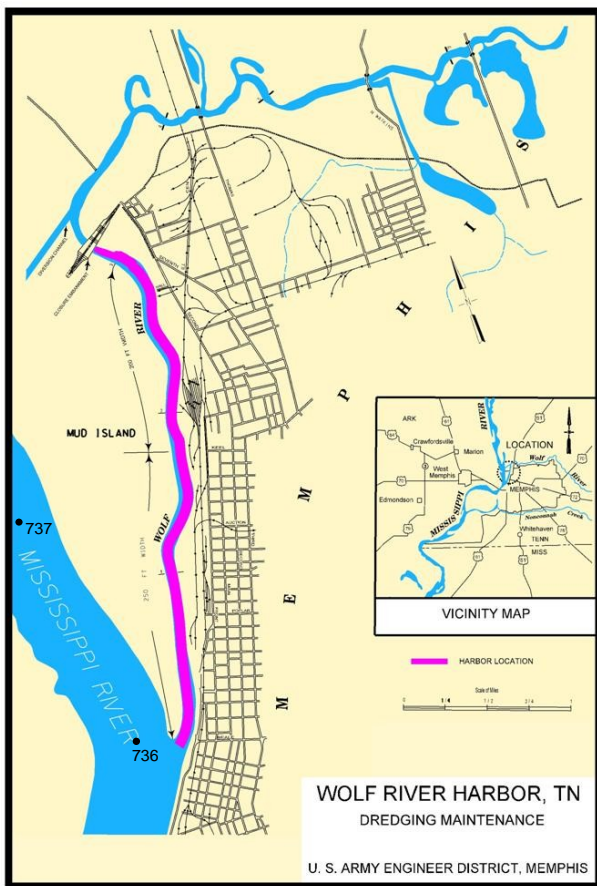
**Project cost:** The estimated cost of the project, including preconstruction, engineering and design activities, is \$13,072,000 of which \$8,310,000 is Federal cost and \$4,762,000 is the responsibility of the non-Federal sponsor.

**Memphis District POC:**

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**As of:** February 2008



**Dredging Maintenance**



**Wolf River Harbor**

**Project Name:** Wolf River Harbor, TN

**Authority:** The National Industrial Recovery Act (NIRA) of 16 June 1933; modified by the Flood Control Act of 03 July 1958, J. D. 76/85/1.

**Location and Description:** This harbor is located on the Mississippi River (mile 737.0), near Memphis in Shelby County, TN. This is a slack-water harbor and is used primarily for the import of industrial materials. The project provides for a navigation channel 9 feet deep by 250 feet wide at low water from the mouth to Keel Avenue (mile 1.75) and 200 feet wide from Keel Avenue to mile 3.0. The local interest is the City of Memphis, TN.

**Status:** FY 2008 funds of \$419,000 Allocation for will be used to dredge the harbor in spring 2008. Funds included in the FY 2009 President's Budget Request of \$107,000 will fund operations activities, surveys and limited dredging. The number in President's Budget Request represents an illustrative distribution of operation and maintenance activities subject to revision during the course of the year, and therefore individual project estimates should not be considered as budget amounts.

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**As of:** February 2008