Buffalo Bayou & Tributaries, Tx (Addicks & Barker Dam Safety)

U.S. ARMY CORPS OF ENGINEERS **BUILDING STRONG®**

FACT SHEET as of February 21, 2012

AUTHORIZATION: House Document 456, 75th Congress, 2nd session 1938 and modified by the 1954 Flood Control Act

TYPE OF PROJECT: Flood Risk Management

PROJECT PHASE: Construction

Addicks Stilling Basin

Barker Stilling Basin

CONGRESSIONAL INTEREST: Senators Cornyn and Hutchinson (TX), and Representatives **Culberson (TX-7)**, Jackson-Lee (TX-18), Olson (TX-22), A. Green (TX-9), Paul (TX-14), and G. Green (TX-29).

NON-FEDERAL SPONSOR: N/A

BACKGROUND: The Addicks & Barker Reservoirs are federally funded and operated dams located adjacent to each other on the upper watershed of Buffalo Bayou. They serve as detention basins designed to collect excessive amounts of rainfall and release that rainfall down Buffalo Bayou at a controlled rate that prevents flooding in downtown Houston and the urban areas west of downtown. The dams underwent an evaluation in 2009 in which two structural areas of concern were identified. The areas of concern include the outlet structures in the dams that allow outflow into Buffalo Bayou and the embankments at the ends of the dams. When these two areas of risk are combined with the potential consequences to the Houston metropolitan area should there be a failure, Addicks and Barker Dams were designated as extremely high risk and classified as Dam Safety Action Classification (DSAC) I dams. The intent of the DSM Study is to identify a preferred alternative risk management plan that will address the areas of concern that drove the DSAC I classification to support the ultimate goal of having an adequately safe dam which meets essential USACE guidelines and for which the total residual risk for the dams is considered tolerable.

STATUS: FY11 activities included completion of the Value Engineering Study, the Issue Evaluation Study and development of the Dam Safety Modification Study.

ISSUES: The Risk Management Center requested development of additional detailed designs and cost estimates and associated engineering evaluations and analyses to document the alternative risk management plans to support the recommendation of a preferred alternative. The Dam Safety Team's most recent risk assessment in November 2011 reaffirmed the findings of 2009 which indicated that both dams required repairs to the outlet works, which include the conduits, parabolic spillway and stilling basin.

FINANCIAL SUMMARY ($):	**CONSTRUCTION**
Federal Cost Estimate	$134,481,000
Non-Federal Cost Estimate	0
Total Project Cost	$134,481,000
Allocation thru FY 2010	$5,556,000
ARRA Funding	0
Allocation for FY 2011	1,875,000
Allocation for FY 2012	2,050,000
President Budget FY 2013	0
Amount That Could Be Used for FY 2013	$1,500,000
Balance to Complete	$125,000,000

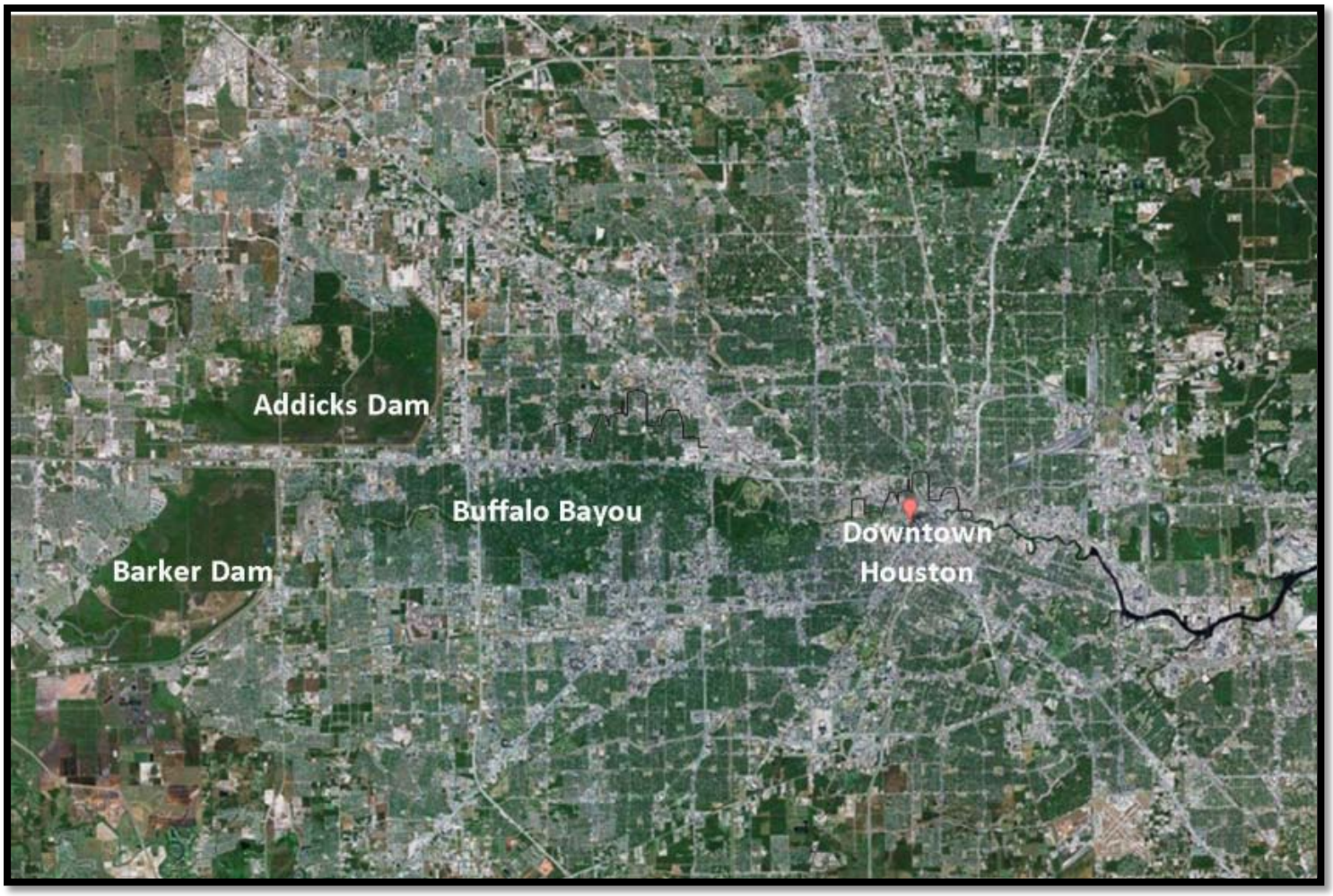
SCHEDULE:

FY 2012 Scheduled Work: Complete the Dam Safety Modification Study and initiate development of plans and specifications for construction of the preferred alternative risk management plan.

FY 2013 Budget: Not in the President's FY2013 budget. If funding is received it would be used to continue development of the plans and specification for Addicks ($750,000) and Barker ($750,000).

COMPLETION: With optimum funding, the project completion date is June 2017.

For more information regarding the Buffalo Bayou and Tributaries, TX Addicks & Barker Dam Safety project, contact Mr. Pete Perez, P.E., Deputy District Engineer, Chief, Programs and Project Management Division at (409)766-3018 or Pete.G.Perez@usace.army.mil.


Addicks Dam
Buffalo Bayou
Barker Dam
Downtown
Houston