

Harpeth River, Tennessee

Feasibility Study

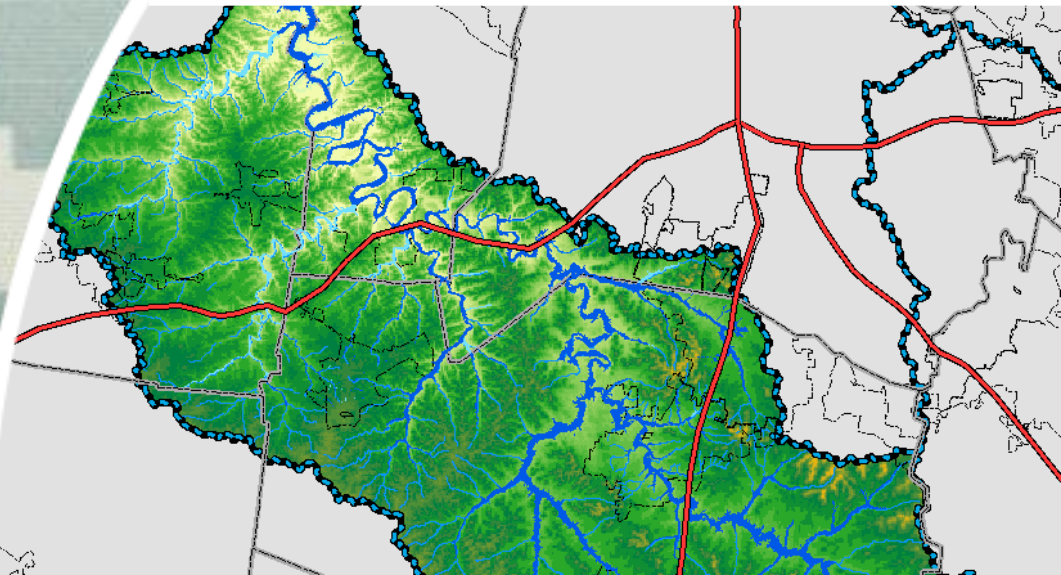
City of Franklin

Nashville District, US Army Corps of Engineers

January 8, 2013



US Army Corps of Engineers
BUILDING STRONG



Agenda

- Corps Study Process
- Feasibility Study Goals
- Feasibility Study Execution
- Study Costs
- Partnership Benefits
- Questions



BUILDING STRONG®

Corps Study Process

- **Interest from local sponsor or recognized need**
- **Reconnaissance Study (Funding 100% Federal)**
- **Feasibility Cost Share Agreement (FCSA)**
- **Feasibility Study (Funding 50% Federal, 50% Sponsor)**
- **Project Partnership Agreement (PPA)**
- **Project Design and Implementation (Varies; Typical Funding 65% Federal, 35% Sponsor)**



BUILDING STRONG®

Corps Study Process

- **Interest from local sponsor or recognized need**
 - **May 2010 Flood saw 4 fatalities and an estimated \$480 million in direct economic impacts in the Harpeth Basin alone.**
- **Reconnaissance Study (Funding 100% Federal)**
- **Feasibility Cost Share Agreement (FCSA)**
- **Feasibility Study (Funding 50% Federal, 50% Sponsor)**
- **Project Partnership Agreement (PPA)**
- **Project Design and Implementation (Varies; Typical Funding 65% Federal, 35% Sponsor)**



BUILDING STRONG®

Corps Study Process

- **Interest from local sponsor or recognized need**
- **Reconnaissance Study (Funding 100% Federal)**
 - Reconnaissance Study, completed in May 2012 and Certified in July 2012, finds federal interest in pursuing both flood risk management and ecosystem restoration studies in the Harpeth Basin, with particular emphasis on regional flood risk measures.
- **Feasibility Cost Share Agreement (FCSA)**
- **Feasibility Study (Funding 50% Federal, 50% Sponsor)**
- **Project Partnership Agreement (PPA)**
- **Project Design and Implementation (Varies; Typical Funding 65% Federal, 35% Sponsor)**



BUILDING STRONG®

Corps Study Process

- **Interest from local sponsor or recognized need**
- **Reconnaissance Study (Funding 100% Federal)**
- **Feasibility Cost Share Agreement (FCSA)**
 - **Over the past six months, Franklin, Brentwood, Williamson County, Nashville, and the Corps have negotiated the scope, schedule, and budget of a multipurpose feasibility study, with a focus on regional flood risk management alternatives that would provide multi-jurisdictional benefits.**
- **Feasibility Study (Funding 50% Federal, 50% Sponsor)**
- **Project Partnership Agreement (PPA)**
- **Project Design and Implementation (Varies; Typical Funding 65% Federal, 35% Sponsor)**



Feasibility Study Goals

- Inventory and model existing conditions in the Harpeth River Basin.
- Develop and analyze Flood Risk Management alternatives in the Harpeth River Basin, to benefit Franklin, Nashville, and Williamson County.
- Will analyze *regional* Flood Risk measures that benefit Franklin, as well as *local* Flood Risk measures in Franklin.
- Will investigate Aquatic Ecosystem Restoration opportunities as a secondary consideration in Franklin.
- Determine a recommended plan of action, and go to 30% design and detailed implementation costs for this plan.
- **End Result: A Feasibility Report with a recommended plan of action approved by Congressional Committee, and the opportunity for sponsors to continue with Detailed Design and Implementation of recommended plan.**



Feasibility Study Execution

- **Comply with “3x3x3” planning paradigm:**
 - **No more than 3 years duration.**
 - **No more than \$3 million total study costs.**
 - **Must ensure 3 vertical levels of review and concurrence.**
- **Use as much existing, reliable data as possible to reach decision points in an effort to minimize study costs and duration.**
- **Sponsor PMs will be closely involved throughout the life of the study to ensure unfeasible alternatives are not analyzed in detail.**
- **Will have an approved Feasibility Report 3 years after study initiation, but much of that time will be spent getting the report finalized and approved by Congressional Committee; a decision on a recommended plan will be reached by 19 months.**



Study Costs

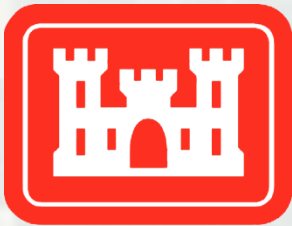
- Total Study Cost is \$1.4 million
 - Federal Share is \$700k
 - Collective sponsor share is \$700k; \$100k is in-kind credit for PM involvement
 - Franklin's share, for the entire feasibility study, is \$246.8k

Total Study Costs by Sponsor			
	Federal Cash (\$)	PM Involvement Credit (\$)	Sponsor Cash (\$)
Franklin	280,166.17	33,333.33	246,832.84
Brentwood	50,000.00		50,000.00
Williamson	83,333.33	33,333.33	50,000.00
Nashville	286,500.49	33,333.33	253,167.16
	700,000.00	100,000.00	600,000.00



Partnership Benefits

- Other potential sponsors, also considering this effort, include Nashville, Brentwood, and Williamson County.
- This multi-government partnership provides valuable advantages in data and knowledge exchange, reducing study costs and duration.
- Regional flood risk management alternatives that benefit multiple jurisdictions could be cost shared among multiple partners.



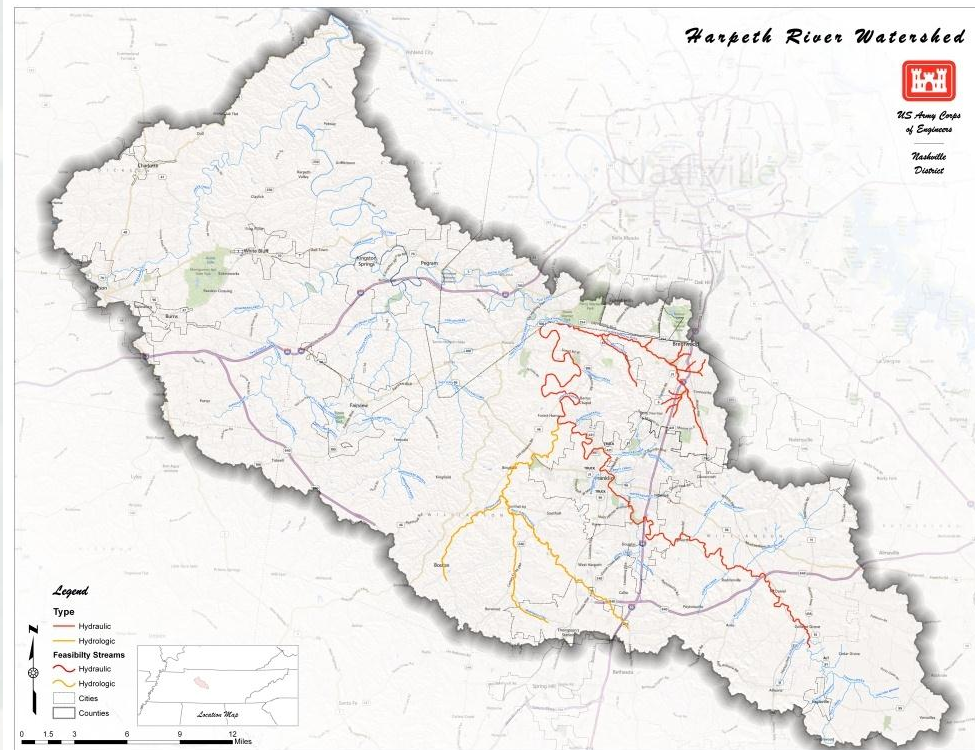
HISTORIC
FRANKLIN
TENNESSEE



BUILDING STRONG®

Summary

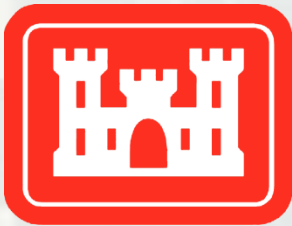
- Corps has determined a federal interest in pursuing a Feasibility Study for the Harpeth River Basin.
- Feasibility Study will investigate both regional and local flood risk management measures for Franklin and other sponsors, as well as aquatic ecosystem restoration measures in Franklin.
- Total study cost is \$1.4 million, with \$246.8k contributed by Franklin; study will be complete in 3 years, but actual decision on a recommended plan will be made in less than 2.



BUILDING STRONG®

Points of Contact

- Russ Rote, Chief of Project Planning Branch, (615) 736-7865
- Craig Carrington, Chief of Plan Formulation Section, (615) 736-7861
- Porter Williams, Project Manager, (615) 736-7635



HISTORIC
FRANKLIN
TENNESSEE



BUILDING STRONG®