

CAHOKIA HEIGHTS, IL PROJECT AND TECHNICAL ASSISTANCE

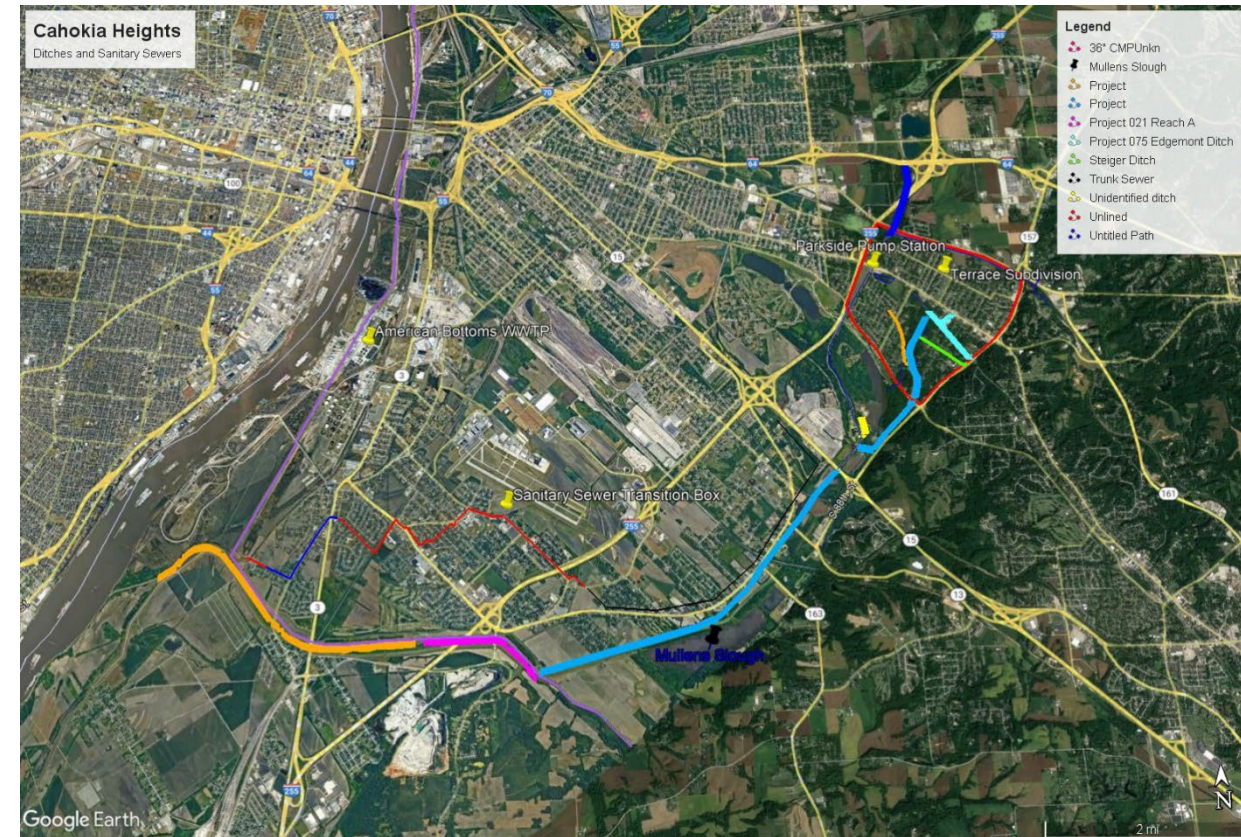
Shawn Sullivan & Ashley Rasnic
Project Management Division
St. Louis District
Date: 7 July 2022



US Army Corps
of Engineers®

Agenda

- Regional Update
- Project and Technical Assistance Overview
- Wastewater Infrastructure Assistance
 - Authority
 - Project Location
 - Process
 - Schedule
 - Implementation Responsibilities
- Flood Hazard Analysis (North Centreville)
- Engagement and Coordination





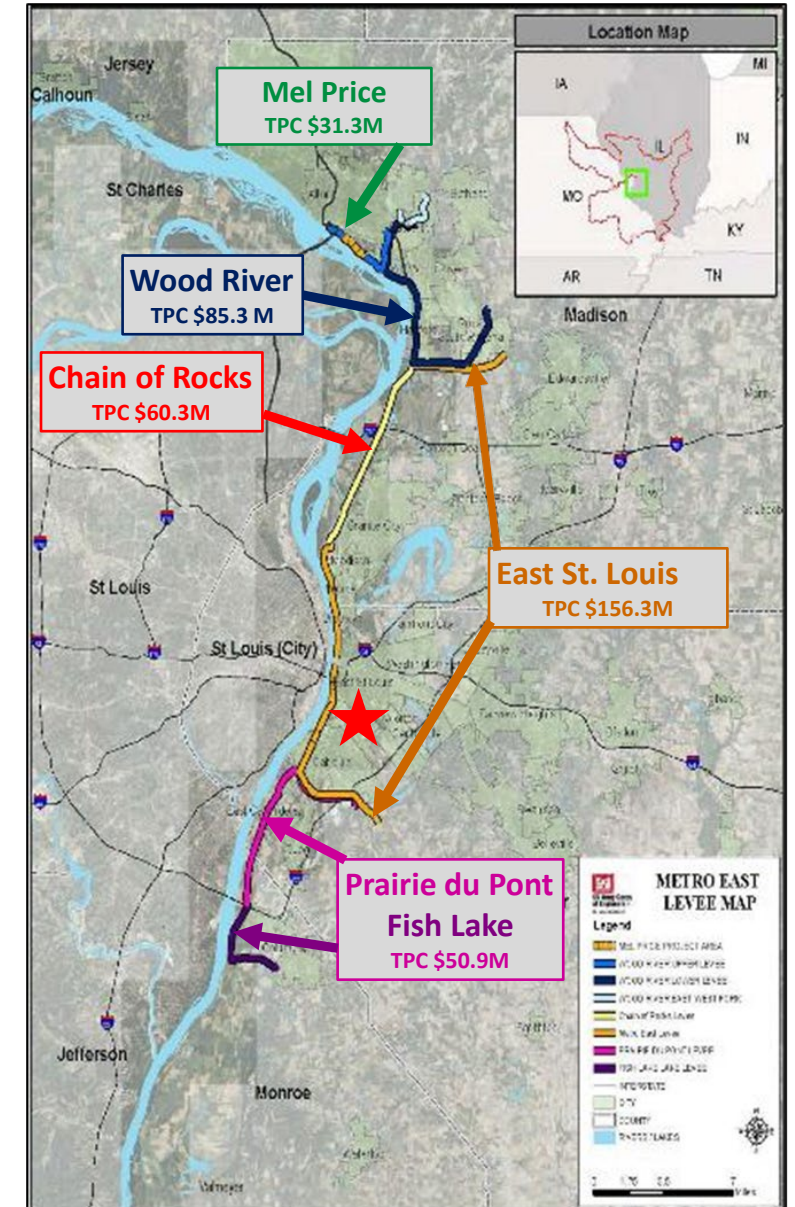
REGIONAL CONTEXT

METRO EAST LEVEE SYSTEMS

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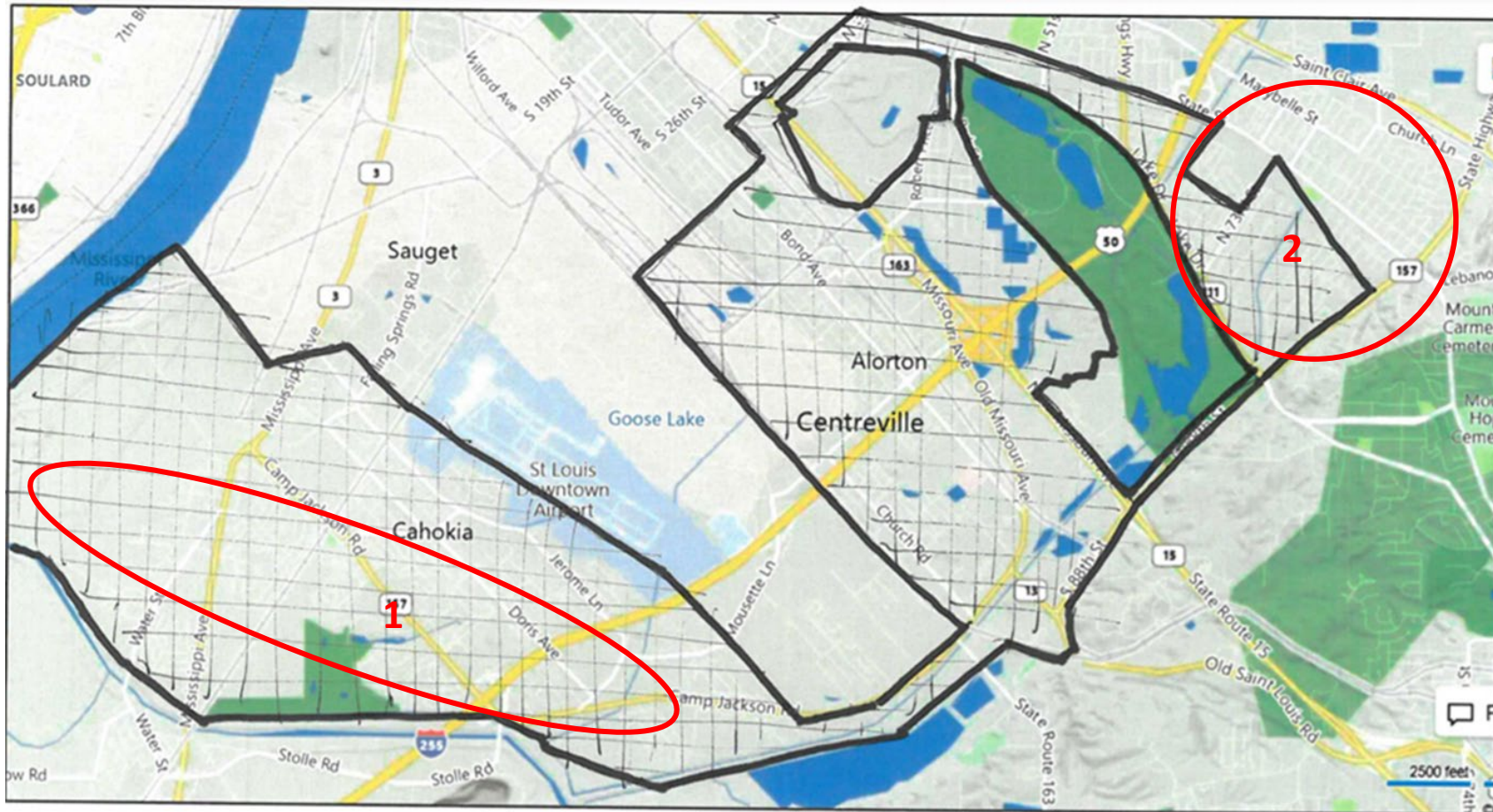


- Reduces flood risk for \$13.3 billion in property value and 280,000 residents.
- Prevented \$18.9 billion in economic damages from Mississippi River floods to date.
- Great flood of 1993 revealed poor levee system performance.
- Levee Districts financially incapable to fully address problems.
- 2007 FEMA announced intent to de-accredit the levees as reducing flood risk.
- Illinois General Assembly approved sales tax to pay for improvements.
- To date over \$220M in Federal and local investment.
- The East St. Louis Levee System has been fully funded to completion to fully restore performance of this Federal levee project.
- Investment = Improved performance and reduced flood risk.
- FEMA accreditation has been recently achieved for all 5 levee systems!!



Project and Technical Assistance Overview

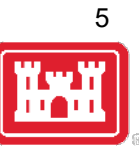
- Evaluating two areas under two separate authorities.
 - 1) Wastewater Infrastructure Assistance – Project
 - 2) Flood Hazard Analysis and Mitigation – Technical





Wastewater Infrastructure Assistance

Section 219 Environmental Infrastructure Program



TIMELINE

- **2001** Received authorization to provide design and/or construction assistance of water and wastewater projects in Madison & St. Clair Counties, Illinois.
- **2013** Reached authorized federal funding limit of \$10M.
- **2018** Water Resources Development Act provided for modifications to the authorized federal funding limits.
- **2019** Madison and St. Clair Counties requested funding increase in 2019, Senator Duckworth and Congressman Bost supported the increase.
- **2020** Section 352(b)(3) of the Water Resources Development Act, authorized an increase in Federal funding limit from \$10M to \$45M.

ACTIVITIES IN FY21 (1 OCT 2020 – 30 SEP 2021)

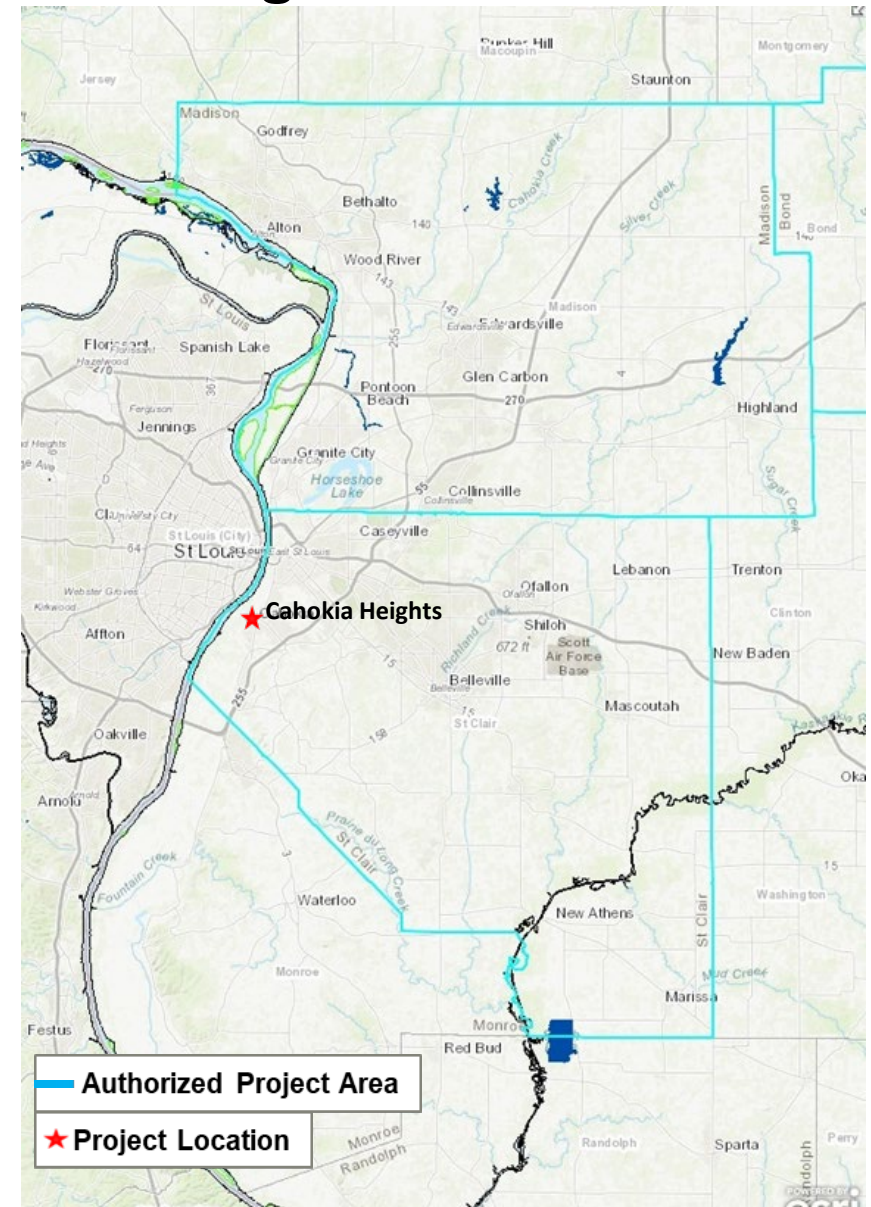
- Received Letter of Intent from Illinois Environmental Protection Agency (enabled budgeting for Cahokia Heights).
- Submitted budget package for FY22 Federal funding.

ACTIVITIES IN FY22 (1 OCT 2021 – 30 SEP 2022)

- Received Federal funding in the Infrastructure Investment Jobs Act (\$25K) (Senator Durbin enabled this funding).
- Initiated and completing Letter Report to document the construction assistance project.
- Submitted budget package for FY23 Federal funding (Senator Durbin supporting this \$3.5M dollar Federal budget request through the Community Directed Funding process for FY23 Appropriation).

ACTIVITIES AFTER FY22 (1 OCT 2022 – 30 SEP 2023)

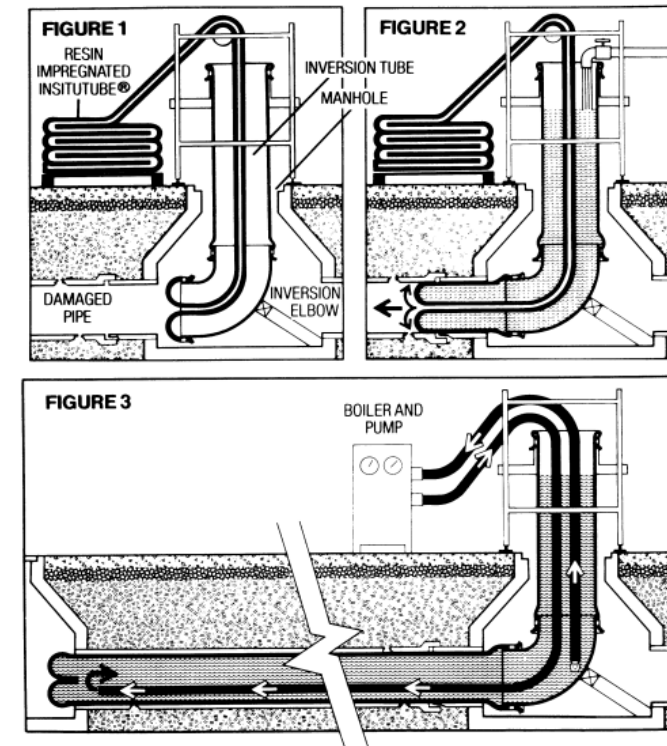
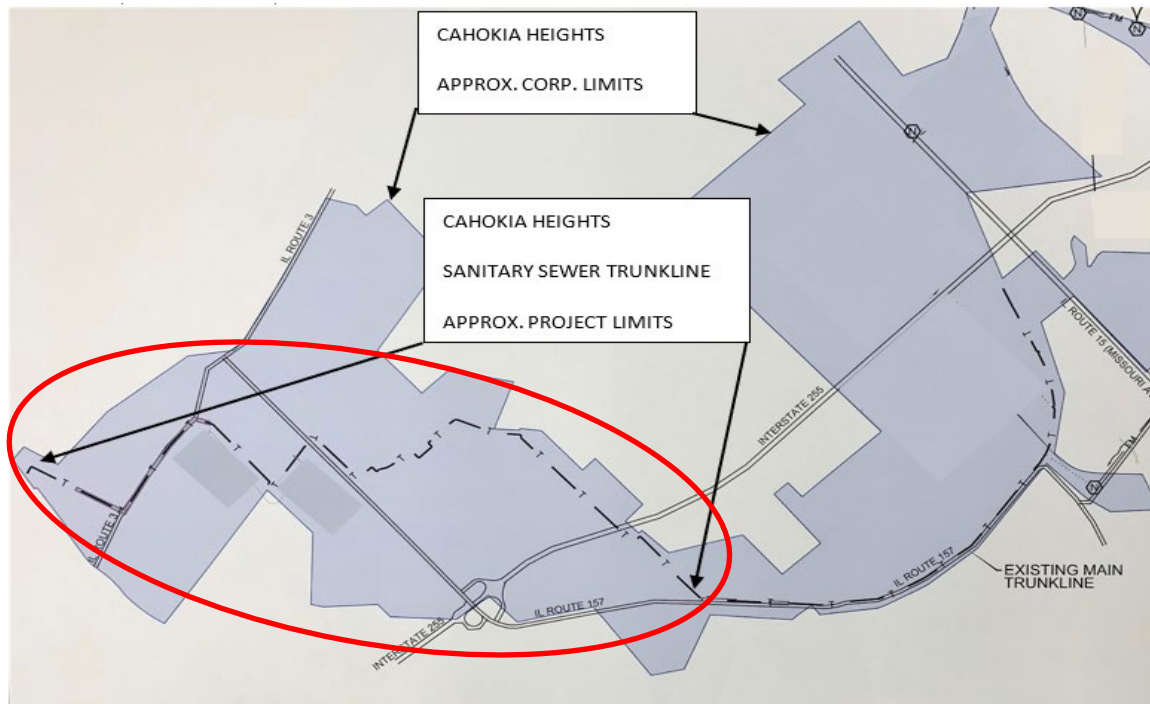
- Implementation of trunk sewer line project contingent upon Federal funding (\$3.5M)



Cahokia Heights

Wastewater Infrastructure Assistance

- Obtained local government input and USEPA validation on what and where our initial increment of work should focus.
- Requested assistance with trenchless sewer rehabilitation on a sanitary sewer trunkline.
- Rehabilitation project involves cured-in-place pipe (CIPP) to correct pipe deficiencies (cracks and breaks), restore structural stability, and ensure reliability of this main conduit for wastewater transport.
- Receives flow from all tributary lines, before reaching the southernmost pump station (Levin Drive), where it is then pumped to the American Bottoms WWTP.



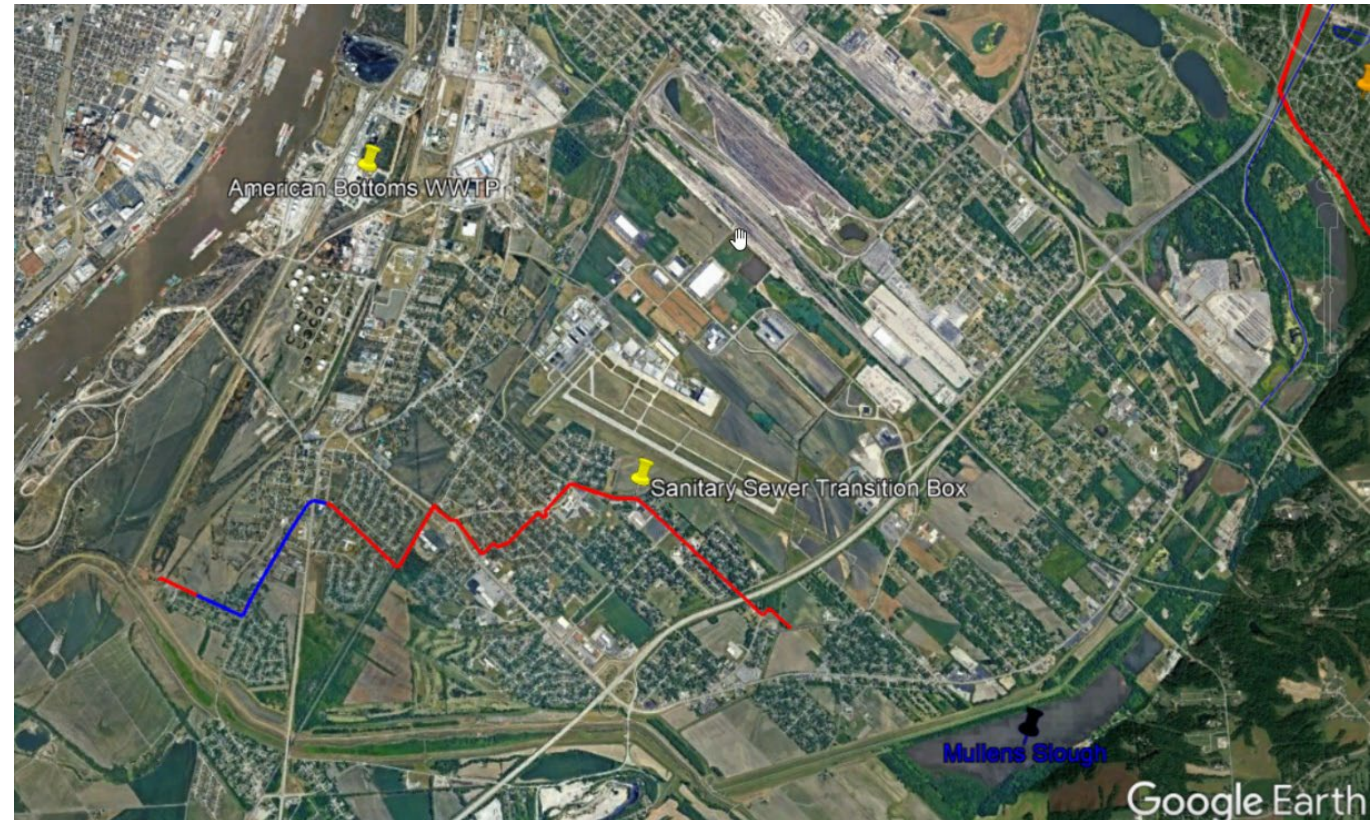


Letter Report Schedule



- ✓ March 2022: Submit FY23 Work Plan package for project construction
- June* – November 2022: Document proposed project within Letter Report; Obtain Approval
- March 2023: Anticipated Receipt of FY23 funding for project construction
- July 2023: Execute Cost Share Agreement with City
- November 2023: Contract Award
- December 2023: Construction Start

** Letter Report and Environmental Assessment are being finalized and projected to release for Public Review in late July 2022.*





Letter Report Contents



PURPOSE - Provide Federal construction assistance to the City of Cahokia Heights, IL for the rehabilitation of sanitary trunk sewer, including cleaning, televising, and installation of cast-in-place pipe, (aka “slip lining”) of the largest, deepest, and most downstream sections of the main sanitary sewer trunkline conveying flow through the City, prior to it being pumped to the American Bottoms Regional Wastewater Treatment Plant (WWTP) for treatment.

AUTHORITY - Section 219 (f) of the Water Resources Development Act (WRDA) of 1992 (Public Law 102-580), as amended by Section 108 (d) (55) of the Consolidated Appropriations Act of 2001 and Section 352(b)(3) of WRDA 2020.

SPONSOR – City of Cahokia Heights, Illinois

FINANCIAL CAPABILITY OF SPONSOR – Will describe the financial capability of Cahokia Heights to meet the local cooperation requirements of the environmental infrastructure project. Provide a brief description of the financing plan for the City’s share of project costs.

DESCRIPTION OF THE PROJECT - Provide trenchless sewer rehabilitation involving Cured-In-Place Pipe (CIPP) lining that corrects pipe deficiencies (cracks and breaks), restores structural stability, and ensures long-term reliability of this main conduit for wastewater transport.

ENVIRONMENTAL COMPLIANCE – Will describe the environmental compliance requirements for the proposed work and the status of the compliance with these requirements.

COST - Indicate the cost of the proposed infrastructure assistance and the basis for the cost estimate.

SCHEDULE - Indicate the schedule for the proposed infrastructure assistance and how it fits, within the overall project schedule.

PROJECT PARTNERSHIP REQUIREMENTS - Non-Federal Sponsor shall contribute at least 25 percent of the total project costs. The 25 percent non-Federal share will take the form of cash, creditable in-kind contributions, and credit for lands, easements, rights of way, relocations and dredged material disposal areas (LERRD).

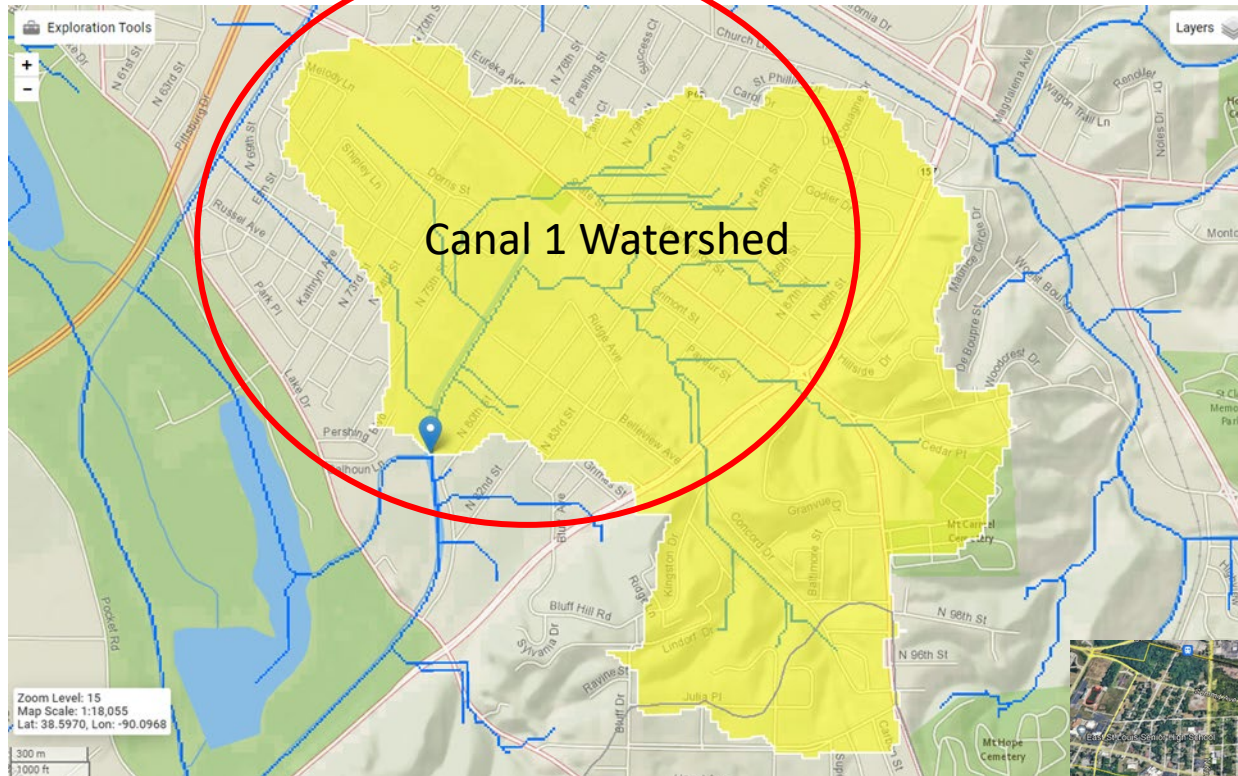
IMPLEMENTATION RESPONSIBILITIES – continued next slide.



Implementation Responsibilities

- The City, through their civil engineer Hurst-Rosche, Inc., will finalize plans and specifications for the proposed project and provide them to the Corps for review and implementation.
- Plans and specifications for work to be performed will be formatted into Corps standards and a Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) review will be conducted.
- USACE will advertise and award a competitive contract after execution of the Project Partnership Agreement.
- USACE will perform quality assurance, manage all contract administration actions, and coordinate construction inspection activities during construction.
- After construction is complete, the City is responsible for future Operation, Maintenance, Repair, Rehabilitation and Replacement.

Flood Hazard Analysis



Floodplain Management Services

100% Federal Cost

Federal Funds Available

Initiate in Mid-July 2022

Likely 8-12 Month Timeframe

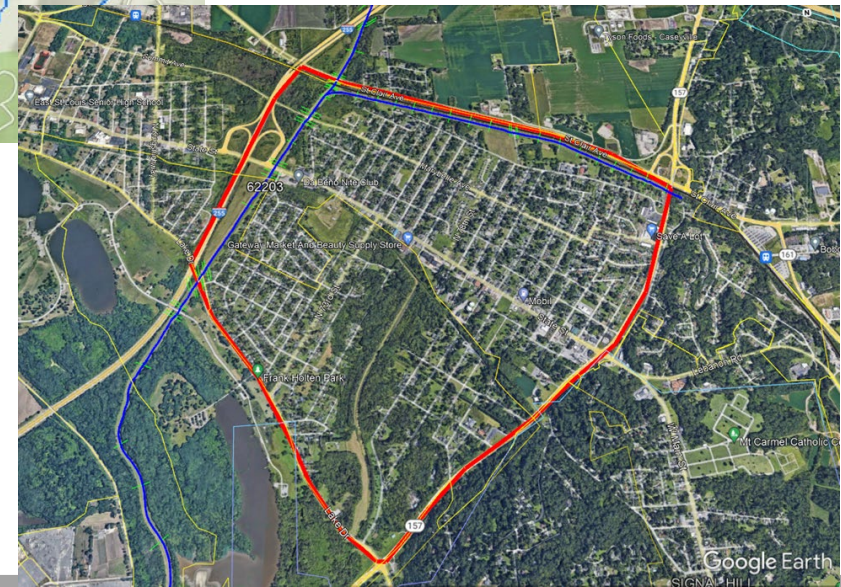
Evaluate the flood prone areas

Engineering Analysis

Conceptual Cost Estimates

Recommended solutions to alleviate flooding.

- Channel Cleanout and Widening
- Pipes and Culverts
- Parkside Pump Station Rehabilitation
- Detention





Engagements and Coordination



Calendar Year 2021

- March 2nd Centreville Citizens for Change (Agency Support) (Citizen Perspectives)
- April 20th State of Illinois Letter of Intent
- October 20th USACE led Interagency call to discuss USACE support
- November 30th MVS review of USEPA Inspection Reports
- December 7th Centreville Citizens for Change (NGO Support) (Citizen Perspectives)
- December 9th Discussion with Senator Durbin Staff
- December 13th Attended call hosted by IDOT with DU and HLC
- December 13th USACE led call with USEPA and IEPA inspectors
- December 15th USACE led call with Interagency team (USEPA, IEPA, IDNR, IDOT, IEPA)

Calendar Year 2022

- January 26th USACE coordination meeting with City Engineer, City and EPA
- February 1st Coordination call with USEPA
- February 3rd USACE Discussion with Senator Durbin Staff
- February 16th USACE Interagency Discussion
- February 23rd Residents of Cahokia and East St. Louis (Equity Legal Services)
- March 17th USACE Discussion with Senator Durbin Staff
- March 22nd USGS Coordination Call
- March 25th Site Visit with City Engineer
- March 31st MVD Commanding General visit with Mayor McCall
- April 5th Conference Call with Senator Durbin's staff
- April 5th Site Visit with USEPA
- April 26th Prairie Du Pont Watershed Technical Committee
- May 10th USACE Section 219 Site Visit
- May 20th USACE meeting with East St. Louis
- June 14th USGS coordination meeting with Cahokia Heights (2 USACE attendees)
- June 15th USACE Interagency Discussion
- June 22nd FEMA Hazard Mitigation & Infrastructure Task Force Meeting

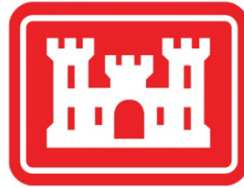


FOR MORE INFORMATION



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<https://www.mvs.usace.army.mil/Missions/Programs-Project-Management/Cahokia-Heights/>



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