

UPPER SUSQUEHANNA RIVER BASIN FLOOD RISK MANAGEMENT FEASIBILITY STUDY

Scoping Meetings:

Owego and Vicinity – Monday, November 21, 2016
(1:30-3PM and 6:30-8PM)

Chenango and Vicinity – Tuesday, November 22, 2016
(1:30-3PM and 6:30-8PM)

Sidney and Vicinity – Wednesday, November 30, 2016
(6:30-8PM)



"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."



Department of
Environmental
Conservation



US Army Corps
of Engineers
Baltimore District



AGENDA

- **Opening remarks and introductions**
 - U.S. Army Corps of Engineers, Baltimore District
 - New York State Department of Environmental Conservation
- **Scoping meeting purpose**
- **Background and status**
- **Overview of the study**
- **Study process**
- **Study progress**
- **Schedule**
- **Q&A**



SCOPING MEETING PURPOSE

- **Scoping meetings held in accordance with the National Environmental Policy Act, and the purpose of the meeting is to:**
 - Obtain public comments and input into the scope of the feasibility study
 - Discuss the study process
 - Discuss the study progress
 - Review study schedule and important dates
 - Discuss flooding problems in the basin

Submit comments via comment cards or email comments and/or photos of flooding, or other information related to flooding problems, to:

UpperSRBStudy@usace.army.mil

Visit the study webpage at http://www.nab.usace.army.mil/USRB_Feasibility_Study/



BACKGROUND AND STATUS

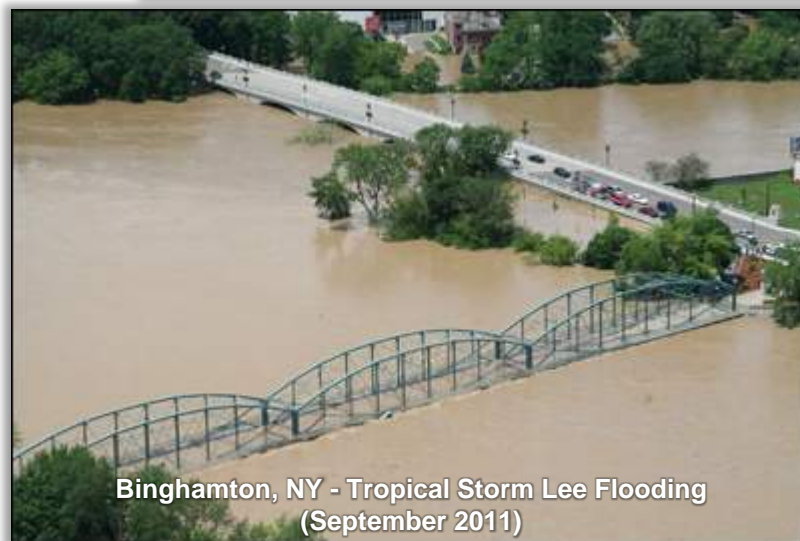
- **Flood events of 2006 and 2011 resulted in study authorization to investigate flood risk**
 - Congressional authorization passed in 2008
- **Initial Federal interest determination**
 - December 2011
- **Feasibility Study**
 - July 2016-July 2019



Johnson City, NY - Tropical Storm Lee Flooding
(September 2011)



Vestal, NY - Tropical Storm Lee Flooding
(September 2011)



Binghamton, NY - Tropical Storm Lee Flooding
(September 2011)

OVERVIEW OF THE STUDY



Johnson City, NY - Tropical Storm Lee Flooding (September 2011)



Johnson City, NY - Tropical Storm Lee Flooding (September 2011)

■ Problem

- Upper Susquehanna River Basin in New York represents a flood prone area that repeatedly experiences flooding damages.

■ Purpose

- Identify and evaluate flood risk to communities within the Upper Susquehanna River Basin.

■ Goal

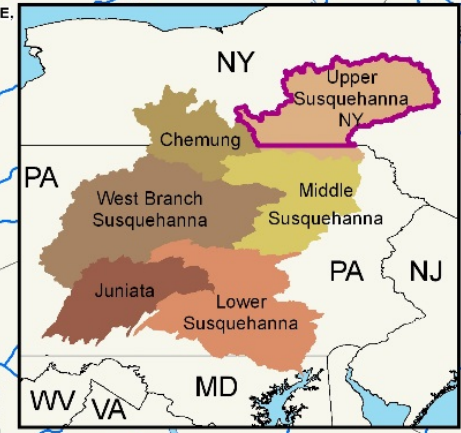
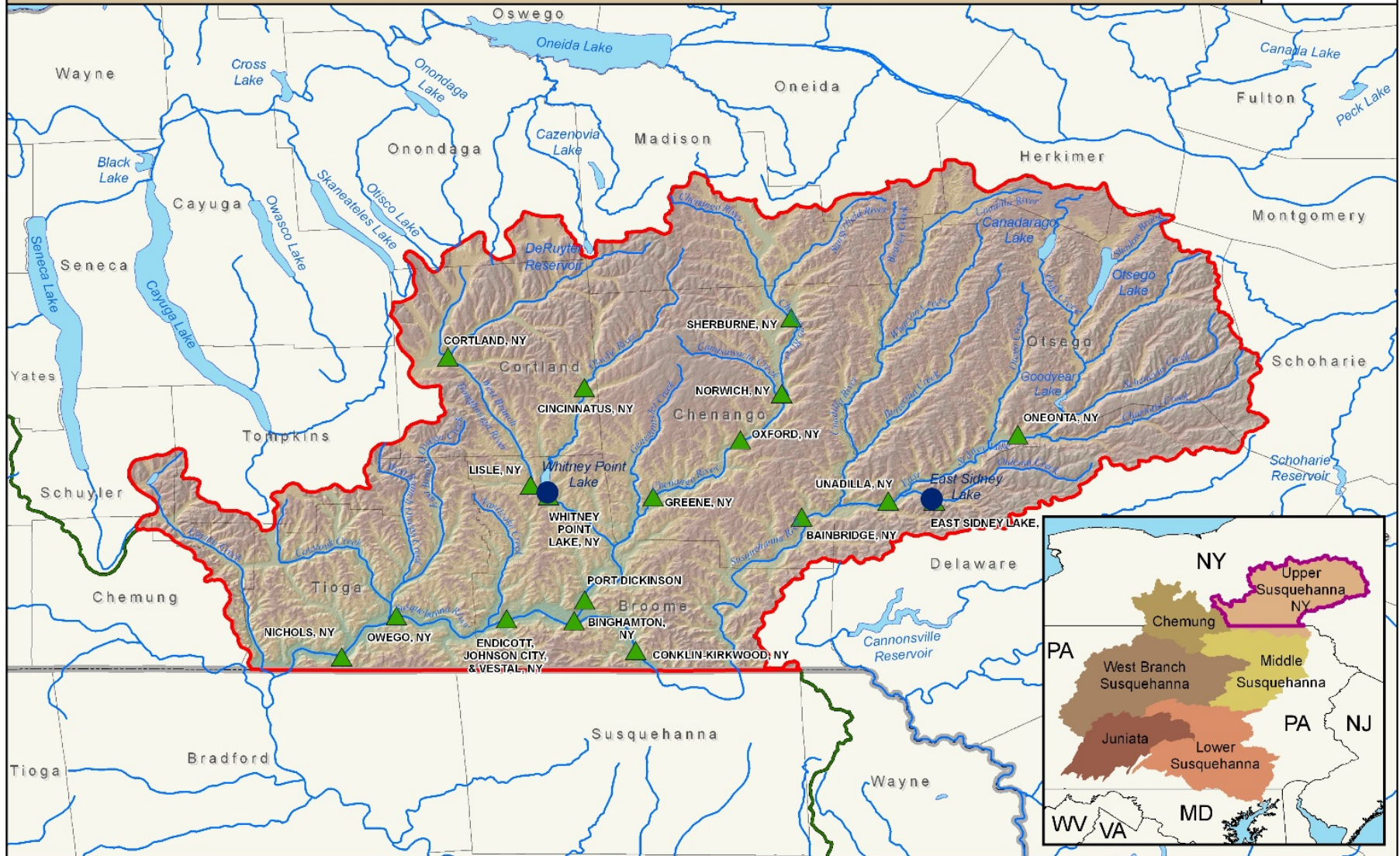
- Identify flood risk management strategies and alternatives to manage and reduce flood risk, including residual risk in areas with existing flood risk management infrastructure.

Existing Water Resource Projects Upper Susquehanna River Basin, New York



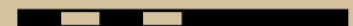
US Army Corps
of Engineers
Baltimore District

6



- Rivers and Streams
- Upper Susquehanna River Basin, NY
- NAB Civil Works Boundary
- Lakes
- Counties
- States
- Reservoirs
- ▲ Flood Control & Snagging & Clearing Projects

17 8.5 0 17 Miles



STUDY PROCESS



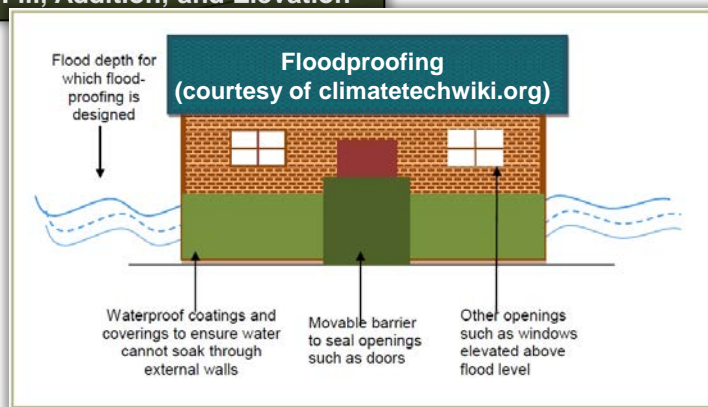
Typical floodwall



Typical levee



Basement Fill, Addition, and Elevation



- **Authority from Congress**
- **Define Problems, Needs, and Opportunities**
 - Complete an evaluation of the watershed to screen opportunities to reduce flood risk.
- **Establish Objectives and Constraints**
- **Collect Information and Data**
 - Characterize existing conditions
 - Flooding mapping
 - Scoping meeting
 - Forecast Future Conditions
- **Identify and Evaluate Strategies, Measures, and Alternatives**
 - Structural
 - Non-structural
- **Compare Alternatives**
 - Benefit-Cost Analyses
 - Completeness, Effectiveness, Efficiency, and Acceptability
- **Select a Plan**
 - National Environmental Policy Act draft report and EIS for public review

STUDY PROGRESS

- **Initial watershed screening for flooding problems (Ongoing)**
 - Existing data analyses
 - Scoping meetings
- **Flood analyses (Ongoing)**
 - Evaluation of existing flood risk management structures
 - Forecasted future conditions to present possible future scenarios
- **Economics analyses (Planned)**
- **Measures screening and initial array of alternatives (Planned)**
- **Evaluate and compare alternatives (Planned)**
 - Benefit-cost analyses
- **Tentatively selected plan (Planned)**
- **Draft Report – public review and comment (Planned)**
- **Final Report (Planned)**
- **Chief's Report (Planned)**



LEVEE SAFETY PROGRAM - ACTIVITIES

- **Routine Activities**
 - Inspections for Operations & Maintenance
 - Technical Assistance/Modification Reviews (federally constructed systems)
 - Screening Level Risk Assessments (Levee Screenings)
 - Risk Communication
- **Non-Routine Activities**
 - Interim Risk Reduction Measures
 - Further Study/Action
- **Flood-fight Training**



Routine Inspection in Vestal, NY



Joint Flood-fight Training in Kirkwood, NY

MAJOR DELIVERABLES

- Comprehensive flood modeling
- Update topographic surveys
- Environmental Impact Statement and Feasibility Report



Sidney, NY - Flooding at Amphenol Manufacturing Plant

SCHEDULE

11

■ Next steps:

- Watershed flood risk screening (Winter 2016)
- Flooding analyses (Spring 2017)
- Economics analyses (Spring 2017)
- Cost estimates (Spring 2017)
- Initial array of alternatives (Aug 2017)
- Alternatives analyses (Fall 2017)
- Tentatively selected plan (Jan 2018)
- Release of the Draft Report and EIS for public review (April 2018)
- Final Report (January 2019)
- Chief of Engineers Report (July 2019)
- Congressional authorization (multiple years)
- Design and Construction (multiple years)



QUESTIONS?

Presenter Contact Information:

David W. Robbins – David.W.Robbins@usace.army.mil
(410) 962-0685

Planning Division, Baltimore District
U.S. Army Corps of Engineers

Email comments to UpperSRBStudy@usace.army.mil

http://www.nab.usace.army.mil/USRB_Feasibility_Study/

