

DuPage River, Illinois Flood Risk Management Feasibility Study

Project Update

Will County Stormwater Committee

Board Meeting

May 3, 2016 Joliet, IL



U.S. ARMY



US Army Corps of Engineers
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Study Overview

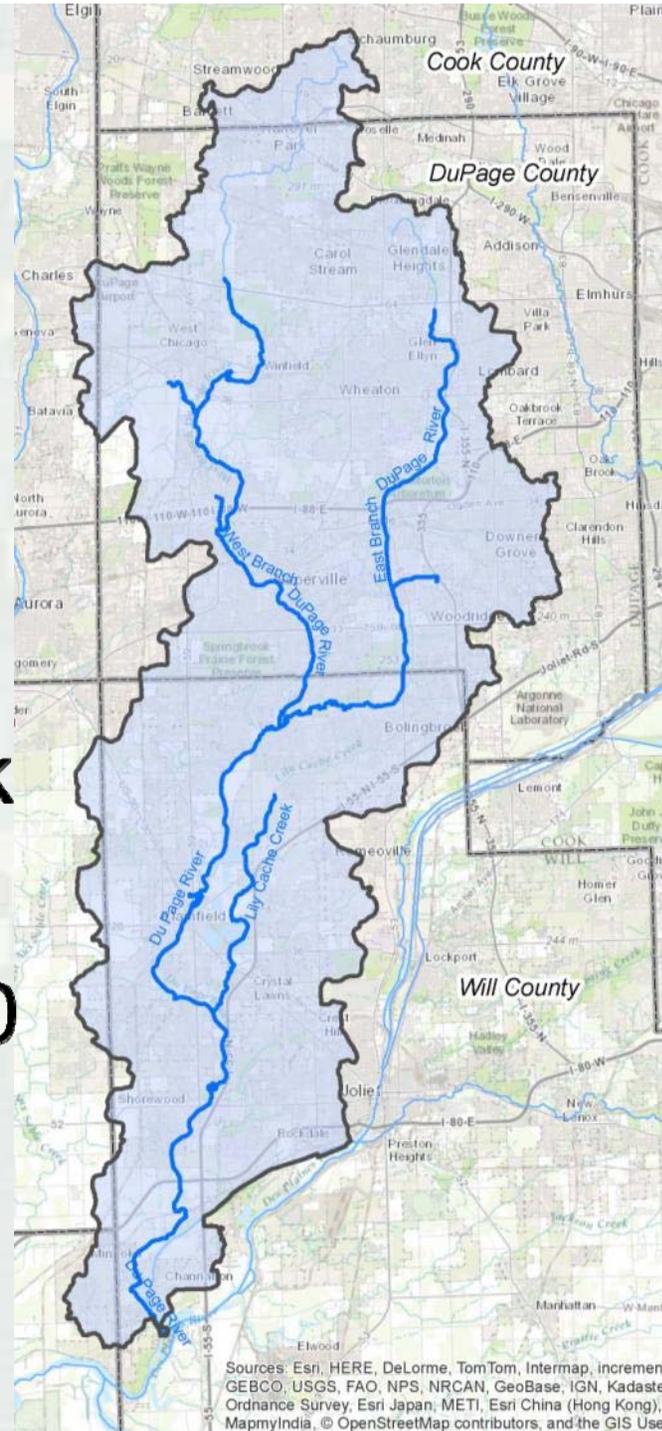
- Area: DuPage River & major tributaries
- Purpose: Flood Risk Management
- Scope: Overbank & backwater flooding



Study Area

- **Size (sq. mi.):** *Total* 353 *Will* 154
- **Municipalities:** *Total* 29 *Will* 12
- **Residents:** *Total* 900k *Will* 350k

- **Population at Risk: 373,000**



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaste Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), MapmyIndia, © OpenStreetMap contributors, and the GIS Use

Study Partnership

- Cost-shared 50/50 with Non-Federal Sponsors
 - ▶ DuPage County Stormwater Management Planning Committee
 - ▶ Will County Executive Office
- Non-Funding Partner
 - ▶ Illinois Department of Natural Resources
 - Office of Water Resources



Study Objectives

Reduce risk of flood damages to structures and infrastructure:

Reduce the depth, duration, and likelihood of flooding at residential and commercial structures and infrastructure such as roadways in the DuPage River watershed.

Minimize flood impacts to critical facilities:

Reduce the depth, duration, and likelihood of flooding at key public facilities and access routes required for emergency services in the DuPage River watershed and improve flood preparedness.

Maximize use of nature based features:

Incorporate features that restore natural and beneficial floodplain values and use nature-based features to manage flood risks.



Study Steps

Public NEPA Scoping Period
Ended December 4, 2015



Formulate and evaluate alternative plans
Tentative plan selection

Draft Report Public Review
January 2017



Final report preparation
Washington level review and approval

Transmit to Congress
2018



(Estimated timeline)



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Additional Will County Benefits

River Channel Cross-Section and Bridge Crossing Survey:

A river channel cross-section survey will be conducted along the DuPage River and Lily Cache Creek including all bridge crossings.

Hydrology and Hydraulics Models:

New hydrology and hydraulic models will be developed for the entire DuPage River Watershed in Will County.

Potential Study Sites:

The study will investigate over 15 flood damaged areas in Will County.



Update Since March 1

■ Update activities

▶ Plan Formulation Work

- Meeting with Will County' Municipalities (March 4, 2016)
- Meeting with DuPage County Municipalities (April 5, 2016)

▶ Structure inventory development

- USACE has received the initial structure inventory from each County and is reviewing the information to see what gaps remain (i.e. Missing data, completing structure class assignment). Future work includes scheduling a structure inventory meeting to develop a plan for filling data gaps, identifying potential Field survey needs and capabilities.

▶ GIS support

- The GIS support has been great. The counties has been helpful in identifying and providing available data. We are working on future needs now. Separate from the structure inventory, we know we will need County wide (both counties) parcel files with assessor data to assist in plan formulation. This information will be helpful in early cost estimation and screening of potential project sites.



► H&H modeling

Update (Continue)

- DuPage County consultant and staff continue the development of the HSPF hydrology model for the watershed (both counties DuPage and Will). A schedule is being developed for the work.
- Survey work in will county is completed and the data will be used to develop the Hydraulic model for Will County. Field survey work was completed in April 2016.

► Public updates and coordination

- Question and answer (FAQ) regarding the study was uploaded to the Project Website.
- Project Webpage Link
<http://www.lrc.usace.army.mil/Missions/CivilWorksProjects/DuPageRiver.aspx>

► Estimated FY17 funding needed (Will County)

- A Letter Dated April 29, 2016 was sent with an estimated amount of \$166,417.80

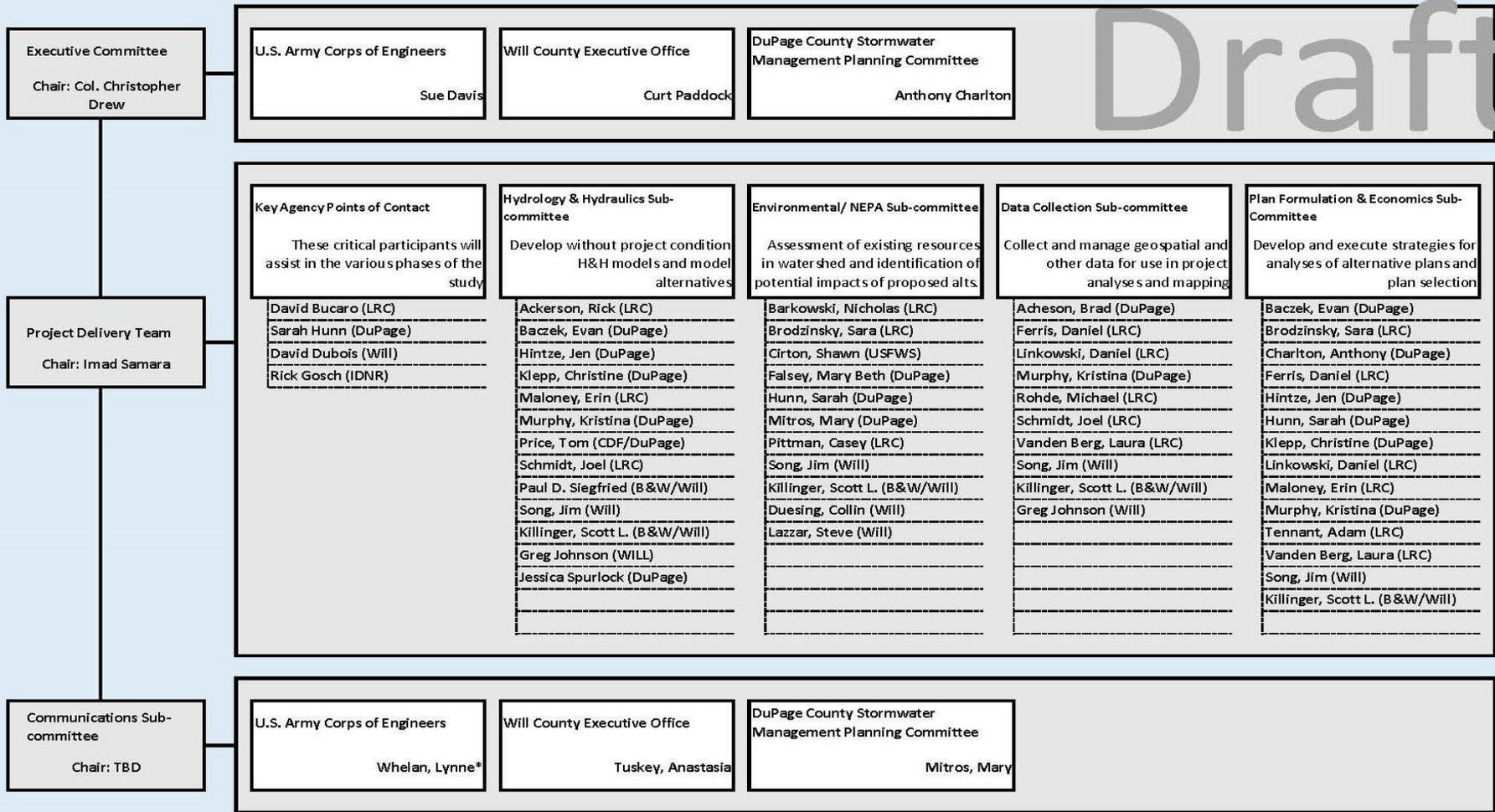
► Feasability Study Sub-Committees

- Hydrology & Hydraulics
- Environmental/ NEPA
- Data Collection
- Plan Formulation & Economics
- Communications



DUPAGE RIVER PROJECT MANAGEMENT TEAM

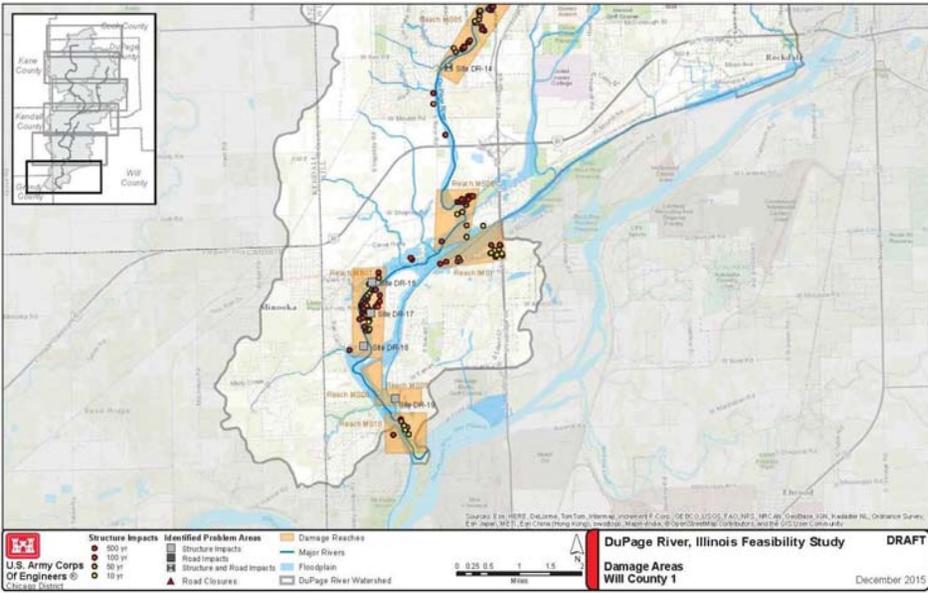
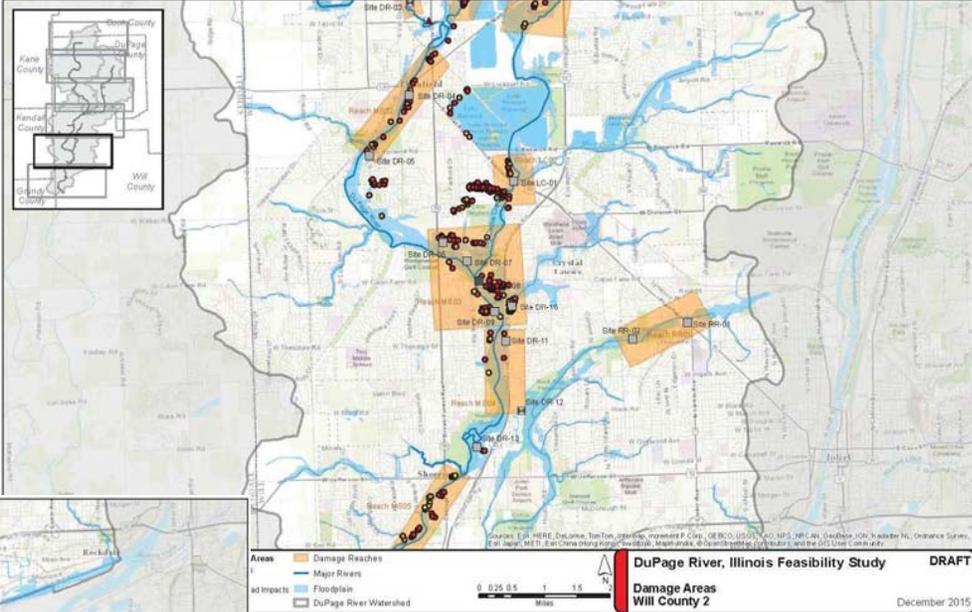
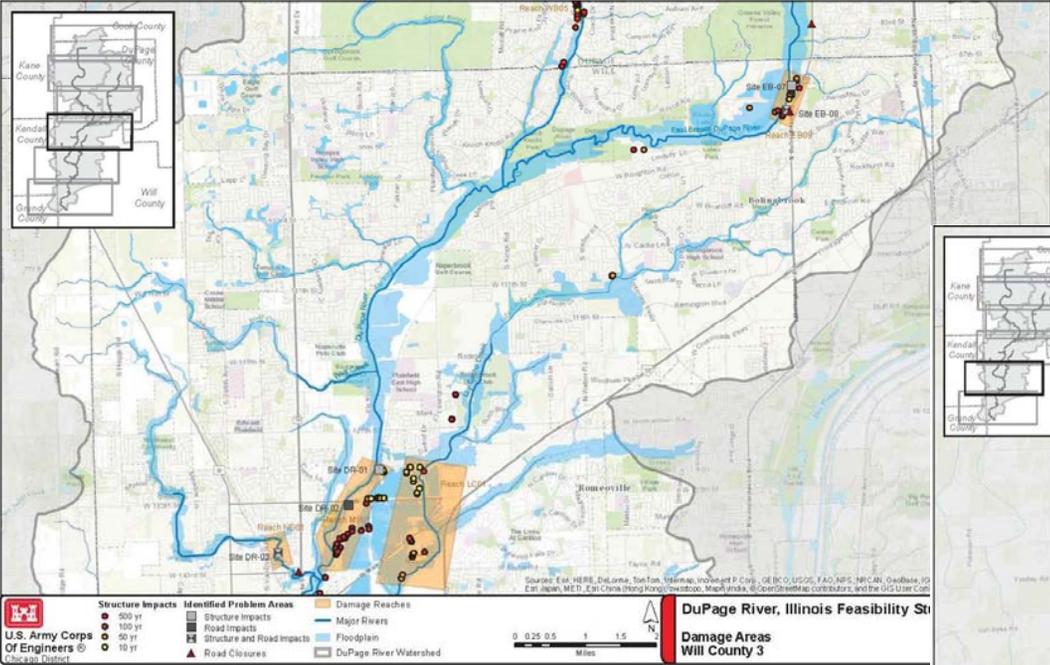
Draft



*Denotes committee chair



Will County Potential Study Sites



Study Timeline

| Milestone | | Estimated Timeline |
|-----------|-------------------------------------|--------------------|
| 1 | Alternatives Milestone | Jan 2016 |
| 2 | Tentatively Selected Plan Milestone | Jan 2017 |
| 3 | Agency Decision Milestone | Jun 2017 |
| 4 | Civil Works Review Board | Apr 2018 |
| 5 | Chief's Report | Jul 2018 |



Questions

