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.

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Chief, Economic Formulation & Analysis Section

Calumet Stormwater Collaborative Meeting
March 3, 2017
PRESENTATION OUTLINE

- USACE and Chicago District Overview
- Civil Works Programs & Select Authorities
  - Project Highlights
- How to Partner with the Corps
Mission: USACE-Chicago District provides valued, world class leadership, engineering services, and management capabilities for diverse stakeholders and partners within the greater Chicago-land metropolitan area and to the Nation.
USACE - CHICAGO DISTRICT

- Civil Works Mission Areas:
  - Flood Risk Management
  - Coastal Storm Risk Management
  - Navigation
  - Ecosystem Restoration
  - Regulatory
  - Technical/Planning Assistance
  - Emergency Management
  - Overseas Contingency Operations
  - Interagency and International Services (IIS) Program
HISTORY OF USACE IN THE CHICAGO AREA

- There has been a U.S. Army Corps of Engineers presence in the Chicago area since 1833; District formed 1870
- Early work focused on maintaining harbor and channel at the mouth of the Chicago River (office was on Fort Dearborn)
- Built harbor facilities at Michigan City and Waukegan in the 1800s
- Constructed the Cal-Sag Channel
- Also built lighthouses, marine hospitals and other facilities
Current Projects
12 FRM / Coastal
9 NAV
27 ER
USACE
Civil Works Programs
& Select Authorities
CIVIL WORKS MISSION

it takes two to tango...

- Authorization
  - WRDA - Water Resources Development Act
  - Appropriations Acts
  - Other Bills
- Appropriations
  - E&W - Energy and Water Development Appropriations Act
  - GLRI - Great Lakes Restoration Initiative (2010-19)
SELECT AUTHORITIES

- Congressionally Authorized
  - General Investigation Studies (GI)
  - Construction General (CG)

- Delegated Authorities
  - Continuing Authorities Program (CAP)
  - Great Lakes Fishery & Ecosystem Restoration Program (GLFER)

- Technical Assistance Programs
  - Flood Plain Management Studies (FPMS)
  - Planning Assistance to States (PAS)
  - Emergency Preparedness & Response
CONGRESSIONALLY AUTHORIZED

- Specifically Named Projects
  - Little Calumet River
  - Chicago Shoreline
  - CUP McCook/Thornton
  - Dispersal Barriers Efficacy
  - Upper Des Plaines River
  - Upper Des Plaines River & Tributaries
  - Bubbly Creek
  - GLMRIS

- Study Authorizations Based in Law
  - WRDA, R&H Acts
  - Resolutions from House or Senate Committees

- Projects Typically Large & Complex
  - 3 year feasibility phase
  - 10+ years to construction
### DELEGATED AUTHORITY

**CONTINUING AUTHORITIES PROGRAM (CAP)**

- Nine authorities that allow the Chief of Engineers to construct projects of limited scope and complexity
- Congress does not need to specifically authorize projects or provide project-specific funding
- Start quickly – implementation sooner
- Projects approved at Division Office, not HQUSACE
- Accelerated planning process …level of detail is consistent with risk
- CAP Projects typically take 3-5 years from initial funding to start of construction
## DELEGATED AUTHORITY – Summary of CAP Program

<table>
<thead>
<tr>
<th>Authority</th>
<th>Description</th>
<th>Per Project Federal Limit ($)</th>
<th>Annual Prog. Limit ($)</th>
<th>Cost Sharing (Fed/Non-Fed)</th>
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<tbody>
<tr>
<td>Sect 14</td>
<td>Emergency Streambank and Shore Protection</td>
<td>5,000,000</td>
<td>20,000,000</td>
<td>65/35</td>
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<tr>
<td>Sect 103</td>
<td>Coastal Storm Damage Reduction</td>
<td>10,000,000</td>
<td>30,000,000</td>
<td>65/35</td>
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<tr>
<td>Sect 107</td>
<td>Small Navigation</td>
<td>10,000,000</td>
<td>50,000,000</td>
<td>Varies by depth</td>
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<tr>
<td>Sect 111</td>
<td>Mitigation of Damages Caused by Federal Structures</td>
<td>10,000,000</td>
<td>N/A</td>
<td>Per original project</td>
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<tr>
<td>Sect 204</td>
<td>Beneficial Use of Dredged Material</td>
<td>10,000,000</td>
<td>50,000,000</td>
<td>65/35</td>
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<tr>
<td>Sect 205</td>
<td>Flood Damage Reduction</td>
<td>10,000,000</td>
<td>50,000,000</td>
<td>65/35</td>
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<tr>
<td>Sect 206</td>
<td>Aquatic Ecosystem Restoration</td>
<td>10,000,000</td>
<td>50,000,000</td>
<td>65/35</td>
</tr>
<tr>
<td>Sect 208</td>
<td>Clearing and Snagging</td>
<td>500,000</td>
<td>7,500,000</td>
<td>65/35</td>
</tr>
<tr>
<td>Sect 1135</td>
<td>Modifications for Improvement of the Environment</td>
<td>10,000,000</td>
<td>25,000,000</td>
<td>75/25</td>
</tr>
</tbody>
</table>
Project: Forest View Levee  
Sponsor: MWRDGC  
Levee assessments identified stability and seepage issues with the structure in its current condition.  
The approved plan will repair and improve the existing Lyons Levee along its entire 4,200 foot alignment.  
Estimated Costs:  
  Federal Cost: $ 3,825,000  
  Non-Federal Cost: $ 2,075,000  
Current Status: The Detailed Project Report was approved in January 2017. Currently under design.
HIGHLIGHTED PROJECTS: CAP Section 206
Aquatic Ecosystem Restoration Projects

Project: Eugene Field
Sponsor: Chicago Park District

12.75-acre restoration of river and riparian zones along the Chicago River
Bank naturalization to facilitation reconnection of the floodplain and restore native landscape of the site

Estimated Costs:
Federal Cost: $ 975,000
Non-Federal Cost: $ 535,200
Current Status: Construction completed in 2014
Pickerel Weed, Broad-Fruit Burr-Reed Burr Reed & Duck Potato Wetland Pocket Surrounded by White Oak Savanna

Fluvial Stone Riffle Habitat with American Waterwillow

100 % Native Vegetation Cover on Chicago River Bank
DELEGATED AUTHORITY
GLFER Program

- Section 506, WRDA 2000, as amended
- Ecosystem Restoration Authority similar to CAP Section 206
- Projects in the Great Lakes Basin, historically connected tributaries or projects outside the basin that help restore Great Lakes resources
- Cost shared 65% Fed/ 35% non-Fed
- Authority for $100M
- Appropriations via USACE E&W work plan or GLRI funding … has not made the cut for the PRESBUD to date
HIGHLIGHTED PROJECTS: GLFER
Northerly Island

- Sponsor: Chicago Park District
- Restoration of 40 acres on the southern part of the island
- Create 6 habitat types that existed before the City was developed: lacustrine, dunal pond, emergent marsh, wet prairie, mesic prairie, and oak savanna
- Cost:
  - Federal: $6,160,000
  - Non-Federal: $3,310,000
HIGHLIGHTED PROJECTS: GLFER
Little Calumet River Riparian

- Sponsor: Shirley Heinz Land Trust
- Restoration of 43 acres surrounding the East Branch Little Calumet River
- Restoration of natural habitat variability, increased native diversity of floodplain forest and canopy coverage, and invasive elimination
- Construction completed in 2015
- Cost:
  - Federal: $240,000
  - Non-Federal: $130,000
FLOOD PLAIN MANAGEMENT SERVICES (FPMS)

Section 206 of the Flood Control Act 1960, as amended

100% Fed to state, regional and local governments

- Limited Funding (FY09 - $8.6M nationwide)
- Types of Services
  - General Technical Services
    - Develops or interprets site specific data on obstructions to flood flows, flood formation, and timing, flood depths or stages, flood water velocities, extent, duration and frequency of floods
  - General Planning Assistance
    - Flood plain delineation, flood warning studies, urbanization impact studies, flood damage reduction studies, flood proofing studies
- No project construction
PLANNING ASSISTANCE TO STATES (PAS) OVERVIEW

Authorized by: Section 22 of WRDA1974, as amended
Partner with Tribes and other non-Federal entities

- %50 Federal /%50 non-Federal cost share
- Work-in-kind or cash

Preparation of comprehensive plans for the development, use, and conservation of water and related land resources

Needed planning assistance is determined by non-Federal partners

Initiated upon request and approval

Studies conducted at planning-level of detail only
  - No feasibility-level studies or detailed design
TYPICAL PAS STUDIES

The program can encompass many types of studies dealing with water resources issues.

Examples include:

• Flood damage reduction assessments
• Flood inundation mapping
• Dam safety and failure modeling
• Water supply and demand analysis
• Water quality assessments
• Environmental restoration concepts
• Wetlands delineation and biological assessments
• Coastal Zone Management/ Protection
Non-Federal Sponsor: Cook County Bureau of Economic Development

Work-in-Kind: Funding for Center for Neighborhood Technology (CNT)

Agreement Initiated: September 30, 2015

Study Description: To develop a shared plan, with specific actions for each of the six high flood risk communities within the Watersheds of the Little Calumet River and the Cal Sag Channel in the south suburbs of Cook County, Illinois, and find solutions to mitigate risks of future flooding and build broader community resiliency.
ENVIRO*MENtal INFrastru*ucture:
Cook County, IL and Calumet Region, IN

- Authorized by Section 219, WRDA 1992, as amended
- Cost Share: 75% Federal/25% Non-Federal
- Allows the Corps to provide technical planning, design and construction to non-federal interests who have environmental infrastructure needs in designated areas
- These needs include development of wastewater treatment and related facilities and water supply, treatment and distribution facilities
ENVIRONMENTAL INFRASTRUCTURE PROGRAM -
Section 219: Calumet Region, Indiana

Portage Municipal Water Reclamation Facility

Hammond Relief Interceptor Project

Pipelining operation in East Chicago, IN
ENVIRONMENTAL INFRASTRUCTURE PROGRAM -
Section 219: Cook County, Illinois

Lake County Schererville Heights Project

Before

After

Town of Griffith new storm sewers

Lake County Hermit Lake Project
Cook County, IL
9 Planning & Design
1 Under Construction
6 Completed

Lake County, IN
2 Planning & Design
5 Under Construction
22 Completed
How to partner with USACE?
GETTING STARTED

- Local perception of a water resources problem
- Contact Chicago District Planning: CELRC-Planning@usace.army.mil
- District provides guidance on applicable civil works programs and study authorities
- District requests funding to conduct study
- Sign cost-sharing agreement
- Initiate study when funds are appropriated
TYPICAL NON-FEDERAL RESPONSIBILITIES FOR PROJECT CONSTRUCTION

- Provide all lands, easements, rights-of-way, relocations, and disposal areas (LERRDs) necessary for project construction and operation and maintenance.
- Provide any cash or work-in-kind contributions to satisfy cost-sharing requirements as per project agreements.
- Hold and save the United States free from damages due to the construction and maintenance of the project, except damages due to fault or negligence of the United States or its contractors.
- Comply with the provisions of pertinent Federal acts in carrying out the specified non-Federal responsibilities of the project.
- After completion, accept ownership of and maintain and operate the project in accordance with regulations prescribed by the Secretary of the Army.
CONTACT

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