

USACE/ACEC-IL Outreach Event Chicago District Briefing October 18, 2012

COL Frederic A. Drummond, Jr.
Commander
Chicago District



®

US Army Corps of Engineers
BUILDING STRONG®



GLFER:



Burnham Prairie



Chicago Harbor Lock

A History of Success

(Value to the Nation)



Timeline of Chicago's history:

- 1803 Construction of Fort Dearborn
- 4 Aug 1830 Plat filed for town of Chicago
- 12 Aug 1833 Town of Chicago incorporated (pop. 350)
- 1833 Corps constructs harbor at mouth of Chicago River
- 4 Mar 1837 Chicago granted city charter
- 1840 population hits 4,000
- 1844 - 1915 Harbors constructed along WI, IL, IN shorelines
- 1836-1848 I&M Canal constructed
- 1857 pop. Hits 90,000
- 1870 Corps establishes Chicago District
- 1871 Great Chicago Fire



James Thompson's original 1830 58-block plat of Chicago

Major historical events:

- 1803 - Fort Dearborn established
- 1871 - Great Chicago Fire
- 1893 - World Columbian Exposition
- 1933-34 - Century of Progress World's Fair

The Corps of Engineers' history is intertwined with Chicago's own. Vibrant and dynamic, looking forward and leading into tomorrow.

Timeline of Corps of Engineers projects:

- 1889 Sanitary District of Chicago formed
- 1900 Chicago Sanitary & Ship Canal opened (pop. 1.7M)
- 1938 Chicago Lock completed
- 1940's MILCON in 5 states
- 1950's Nike sites and military facility at O'Hare
- 1970's Postal facilities and Burns Harbor, Indiana
- 1980s TARP
- 1990 Aquatic Nuisance Species Control Act
- 1990's North Branch and O'hare reservoirs, Little Calumet River Levee project. Great Chicago Tunnel Flood
- 2000's Chicago Shoreline, Indiana Harbor CDF, McCook Reservoir,
- 2002, 2007, 2009, 2011 - Barriers I, IIa, IIa increase, IIb



VESSEL BEING TOWED THROUGH THE CHICAGO RIVER



LOCKPORT LOCK & DAM



INDIANA HARBOR & CANAL



MARSEILLES DAM



DRESDEN LOCK CONSTRUCTION



CALUMET-SAGANASHKEE CHANNEL BEFORE WIDENING

USACE-Chicago District

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.

• **LRC Mission Areas:**

- Flood Risk Management
- Shoreline Protection
- Navigation
- Environmental
- Emergency Management
- Overseas Contingency Ops
- IIS Program
- Regulatory Support
- Real Estate



Great Lakes and Ohio River Division



8 Counties (IL – 6; IN – 2); 5,000 Sq. Mi.; 9.1 Million people

As of: 4 October 2012

BUILDING STRONG®

General Investigations (GI)

Mission: Conduct feasibility studies to determine cost effective solutions. These studies have the potential to lead to design and construction of various projects in the future.

- **Current Feasibility Studies Include:**

- **Des Plaines II** 
- **Bubbly Creek** 
- **Great Lakes and Mississippi River Interbasin Study** 

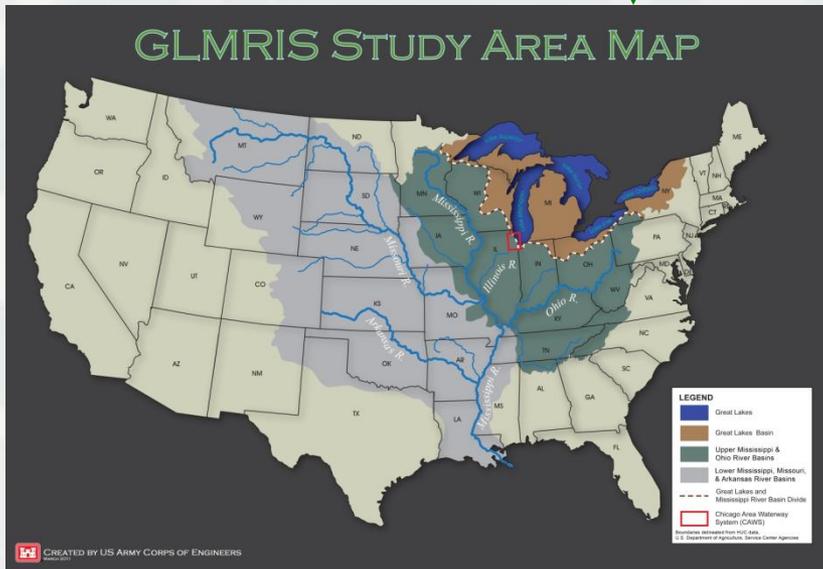


Image of a chicken standing on crusted sewage in Bubbly Creek at West 39th and South Morgan Streets in the Bridgeport community area of Chicago, Illinois. Bubbly Creek was the name for an offshoot of the South Fork of the South Branch of the Chicago River.



Chicago - Flood Risk Management



MONTICELLO (SECT 205)



Chicago Shoreline

- FRM-since 1945
- 524M in flood damages prevented since 1996
- 130M in 2011
- 98M in 2010
- 91M in 2008

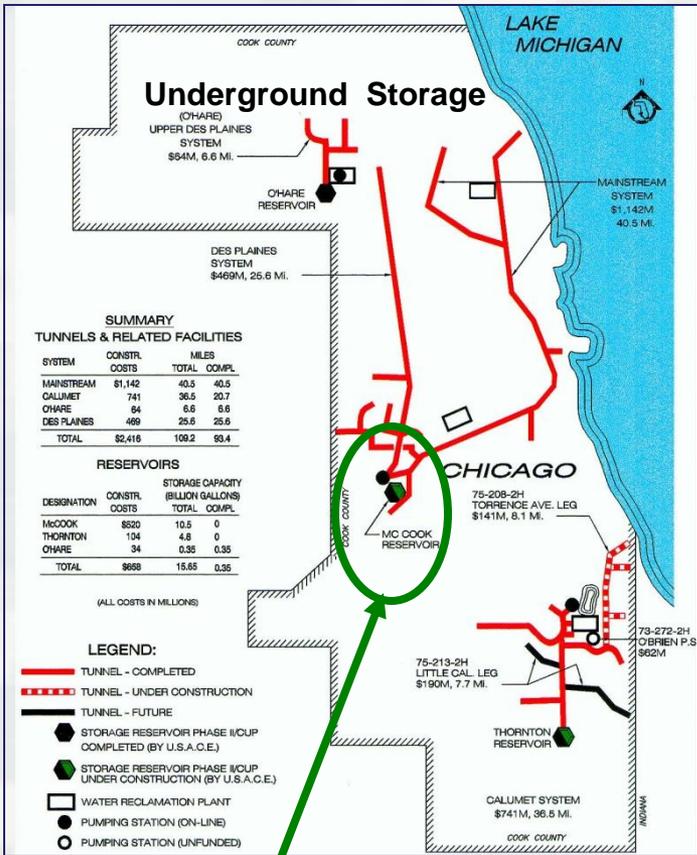
McCook Reservoir



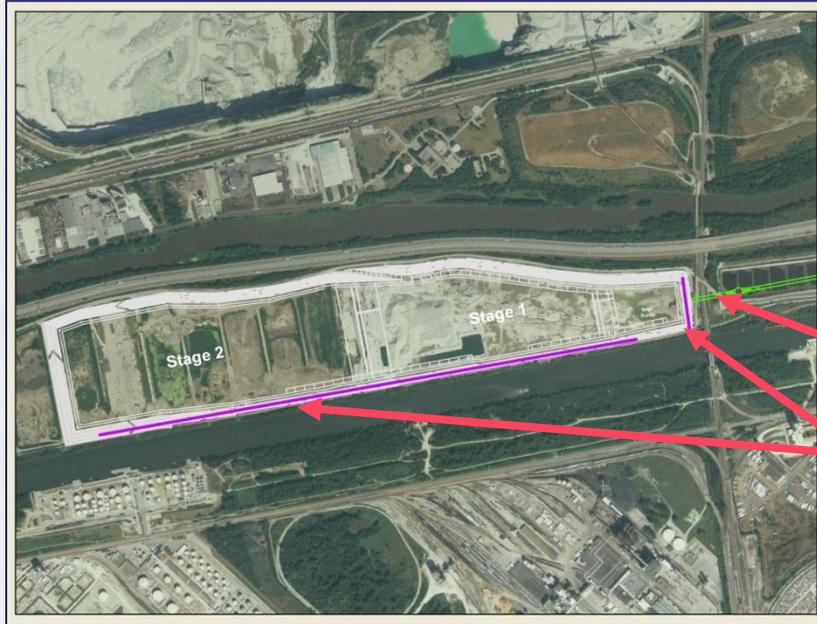
Little Calumet River



McCook Reservoir, Illinois



- 30,000 acre-ft Reservoir (10 billion gal)
- 1 of 2 Tunnels complete
- Pumps & motors finished
- Gates and valves, Aeration system
- Scheduled Completion: Phase 1 (2016), Phase 2 (2029)



Main Tunnel Access Shaft

Stage 2 Grout Curtain

FY 12 Construction:

- Award Rock Wall Stabilization contract & soil stab work order
- Distribution Tunnels Follow-on
- Continue Main Tunnel contract

FY 13 Construction:

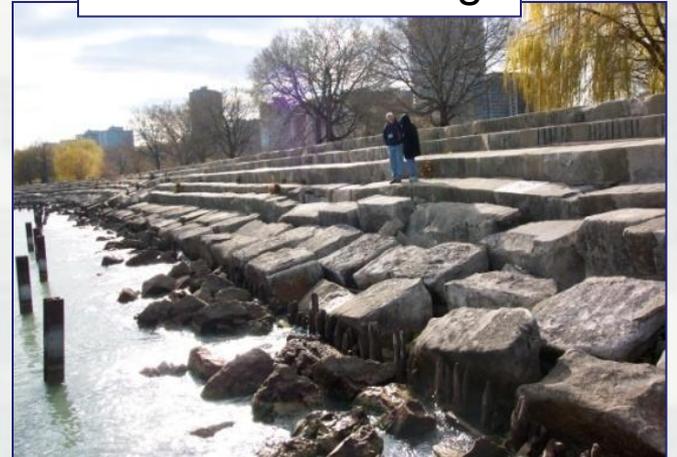
- Continue Main Tunnel contract



Chicago Shoreline



Montrose to Irving



Current Construction:

- 43rd to 45th Street (LS)

Future Construction:

- Montrose to Irving (USACE)
- Fullerton/Theatre on the Lake (LS)
- 45th to 51th Street (LS)
- 54th to 56th Street (LS)
- PACR required

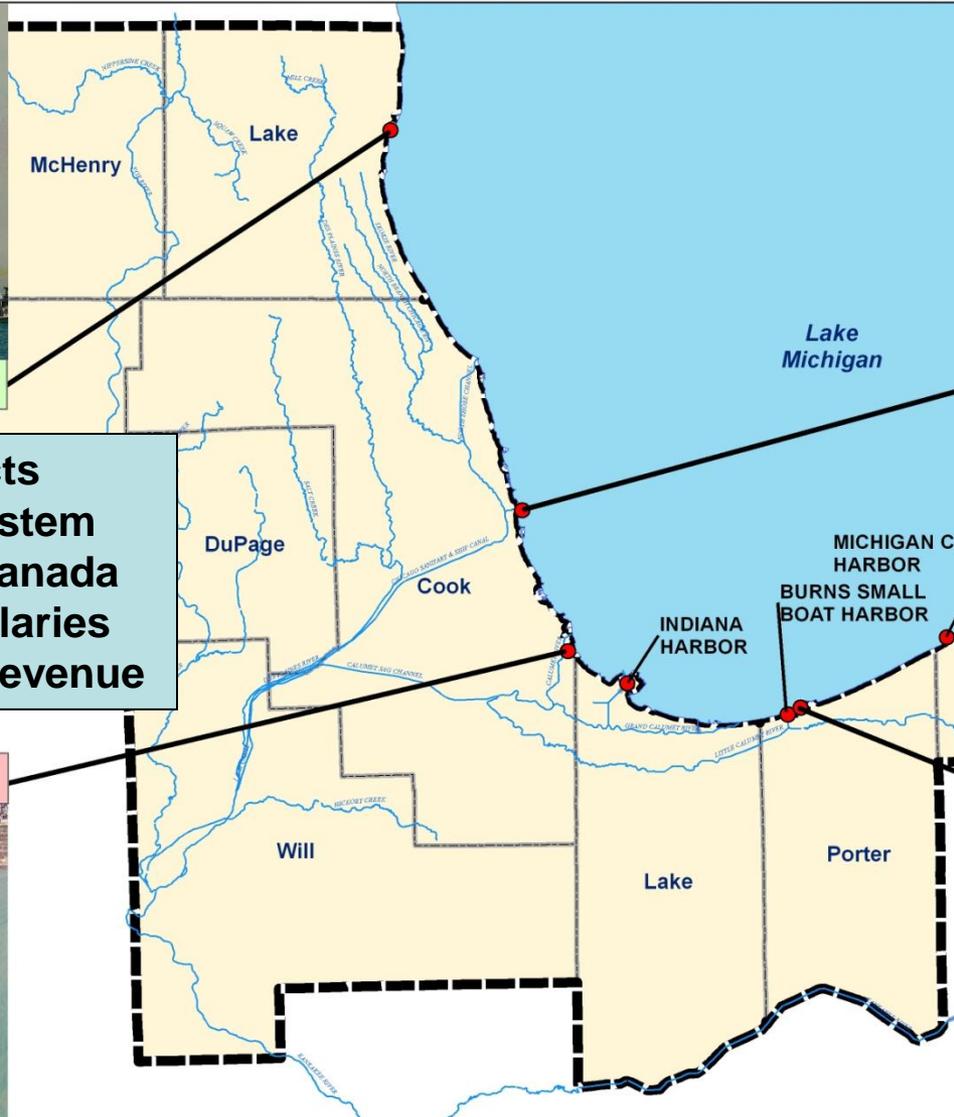
43rd-45th



Chicago - Navigation

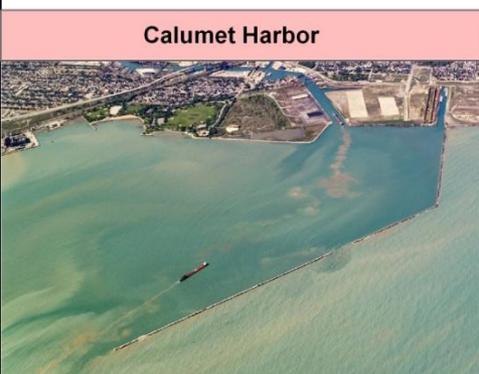


Waukegan Harbor



Chicago Harbor Lock

- Seven Harbor projects
- 90% traffic within system
- 226,800 jobs US & Canada
- \$14.1 B in wages, salaries
- \$33.6B in business revenue



Calumet Harbor



Burns Waterway Harbor

Indiana Harbor and Canal Confined Disposal Facility

- Harbor has not been dredged since 1972.

- Current project includes constructing a confined dredged material disposal facility to house an estimated 1.6M cu yd dredging backlog of contaminated sediment

- CDF features include:
 - slurry cutoff wall
 - outer dikes with interior disposal cells
 - a groundwater gradient control system;
 - a steel sheet-pile cutoff wall barrier at the canal
 - offloading facilities
 - administration building and ancillary support infrastructure.

- Dredging scheduled to begin in Oct 2012.

- Groundbreaking Scheduled for October 29, 2012



Chicago – Environment



Hofmann Dam (SECT 206)

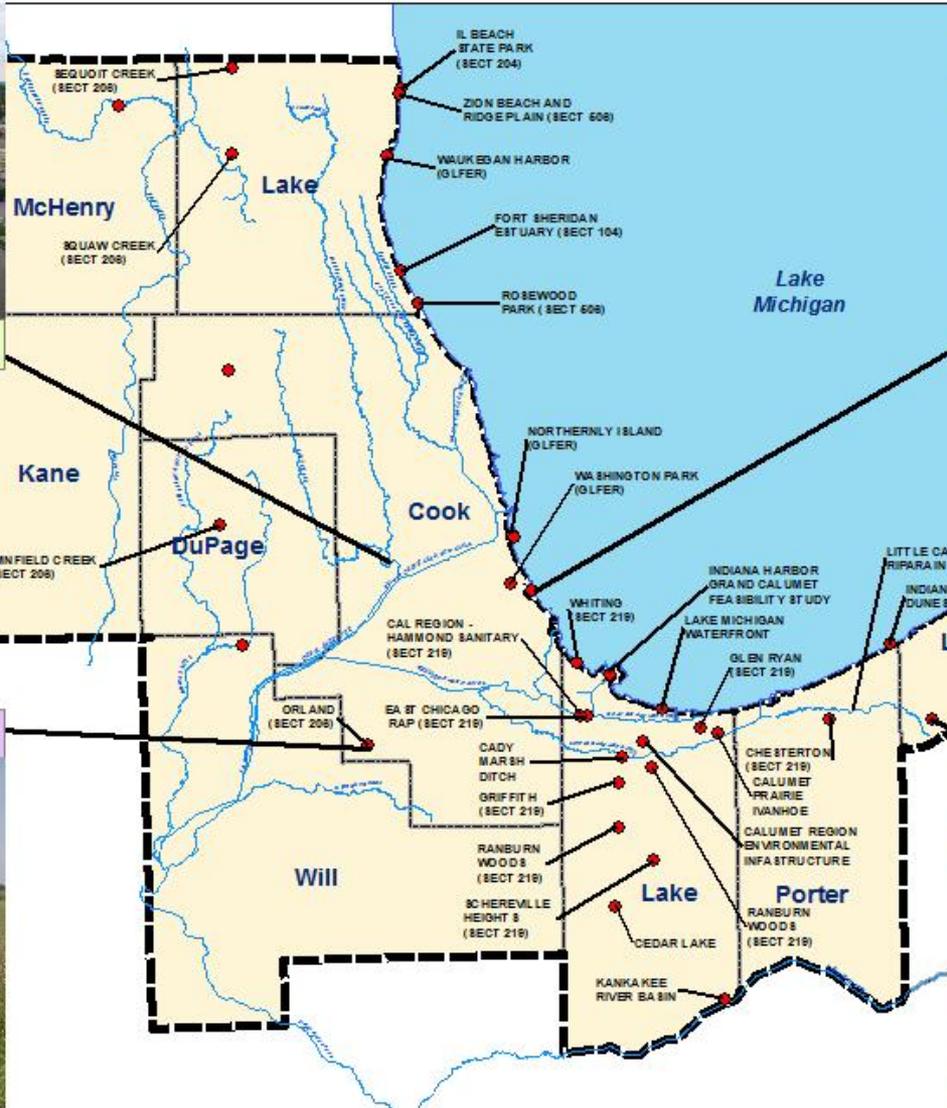


63RD ST BEACH (SECT 506)

Environment:

- 13 projects completed or in construction for 2568 acres of habitat & 60 miles of unimpeded river flow
- 2 projects to construction in 2012
- 16 active studies in progress

Orland Tract (SECT 506)



Red Mill Pond (SECT 506)

Rosewood Park Coastal, Illinois

Great Lakes Fishery and Ecosystem Restoration (GLFER) Section 506 of Water Resources and Development Act (WRDA) 2000



Proposed Project Features:

- **Coastal Breakwaters** - provides physical habitat for fishes and allows for the formation of larger foredunes
- **Stream Day lighting** – would reestablish connectivity of the stream with the lake by removing the box culvert
- **Permeable parking lot** - would reduce influx of runoff and pollutants into the stream and lake.
- **Vegetation Community Restoration** – eliminate invasive plant species and reestablish native woodland plants and native dune grasses,



CSSC Aquatic Nuisance Species Dispersal Barriers

Section 3061, Water Resources Development Act 2007



Project Features:

- **Existing Barriers** – Barriers I, IIA and IIB are currently operational
- **Permanent Barrier I** – Will replace temporary Barrier I. Currently in design, with construction beginning this Fiscal Year
- **O&M** - Ongoing maintenance and operations efforts in place at the three operational barriers.
- **Other planned work**
 - Complete Efficacy study
 - Complete demo projects for fish monitoring system
 - Continue field studies of barrier effectiveness
 - Continue Asian Carp monitoring with other partners



Small Business Program FY 12

as of 30 September 2012

Challenges:

- Federal and State Program Trends
- Small Businesses not staying connected



Category	Obligated Amount	Statutory Goal	District Goal	YTD Actual
Small Business	\$30,085,315	23 %	45 % (50 %)	64.40 %
Small Disadvantage Business (8a)	\$12,440,955	5 %	11 % (5 %)	15.63 %
HubZone	\$13,768,386	3 %	10 % (5 %)	29.47 %
Women-Owned SB	\$1,595,510	5 %	5 % (5 %)	3.42 %
Service-Disabled Veteran Owned SB	\$4,954,171	3 %	3 % (3 %)	10.60 %

* Tentative District Goals for FY13



Planned FY13 Advertisement Schedule

Flood Risk Management

Project	Project Description	Est. Cost	Advertise Date	Acquisition Strategy
Chicago Shoreline Montrose to Irving	Revetment Construction	\$10 – 25 M	Dec 12	Small Business
Levee 37 Gap Enclosures	Flood Wall with Sheet Pile & 2 Closure Gates	\$1 – 5 M	Apr 13	TBD
McCook Reservoir Distribution Tunnels	Distribution Tunnel Chamber Repairs	\$5-10M	May 13	TBD
Little Calumet River Southmoor	Flood Wall with Sheet Pile	\$1-5 M	Aug 13	TBD
Little Calumet River Tie-Backs	Levee and Flood Wall	\$1-5 M	Aug 13	TBD



Planned FY13 Advertisement Schedule

Ecosystem Restoration / Environmental Infrastructure

Project	Project Description	Est. Cost	Advertise Date	Acquisition Strategy
Dispersal Barriers, Hydroacoustics	Installation of Fish Monitoring Equipment	\$1 – 5 M	May 13	Sources Sought
GLFER, Rosewood Park, II	Ecosystem Restoration		Jun 13	TBD
Dispersal Barriers, Permanent Barrier Bldg.	Construct Building to House Electrical Equipment for Barrier I (12,000 sq. ft)	\$10 - 25 M	Aug 13	TBD
Dispersal Barriers, Maintenance Contract	Support for continued O&M of 3 electric barriers	\$1 – 5 M	Nov 13	TBD



A/E Contracts

Firm	Specialty	Size	Award Date	Expiration Date	Remarks
AECOM	Geotechnical	\$5M	Aug 09	Aug 14	Regional contract shared with Detroit District
Tes Tech	Geotechnical	\$1.5M	Jun 10	Jul 13	Regional contract shared with Detroit District
Tetra Tech	Design	\$5M	Jul 08	Jul 13	All disciplines including construction management
American Surveying & Engineers	Land Surveying	\$2.5M	May 08	May 13	Includes projects within LRD boundaries
Future Net Group	Environmental	\$5M	Feb 10	Feb 15	Includes projects within LRD boundaries and other states
New Contract	Design	\$5M	Jan 13	Jan 18	All disciplines, including construction management
New Contract	Design	\$2.5M	Jan 13	Jan 18	All disciplines, including construction management



Contracting With The Chicago District

Contract Advertisements/Bid Packages:

- Contracting Opportunities in excess of \$25K (AE, Construction, Services, Supplies, O&M Projects)
- VISIT Federal Business Opportunities:
<http://www.fbo.gov>
Keyword/Solicitation: W912P6



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