

# **Chicago Sanitary and Ship Canal Aquatic Nuisance Species Dispersal Barriers**

**Project Manager: Chuck Shea, P.E.**

**June 17, 2008**

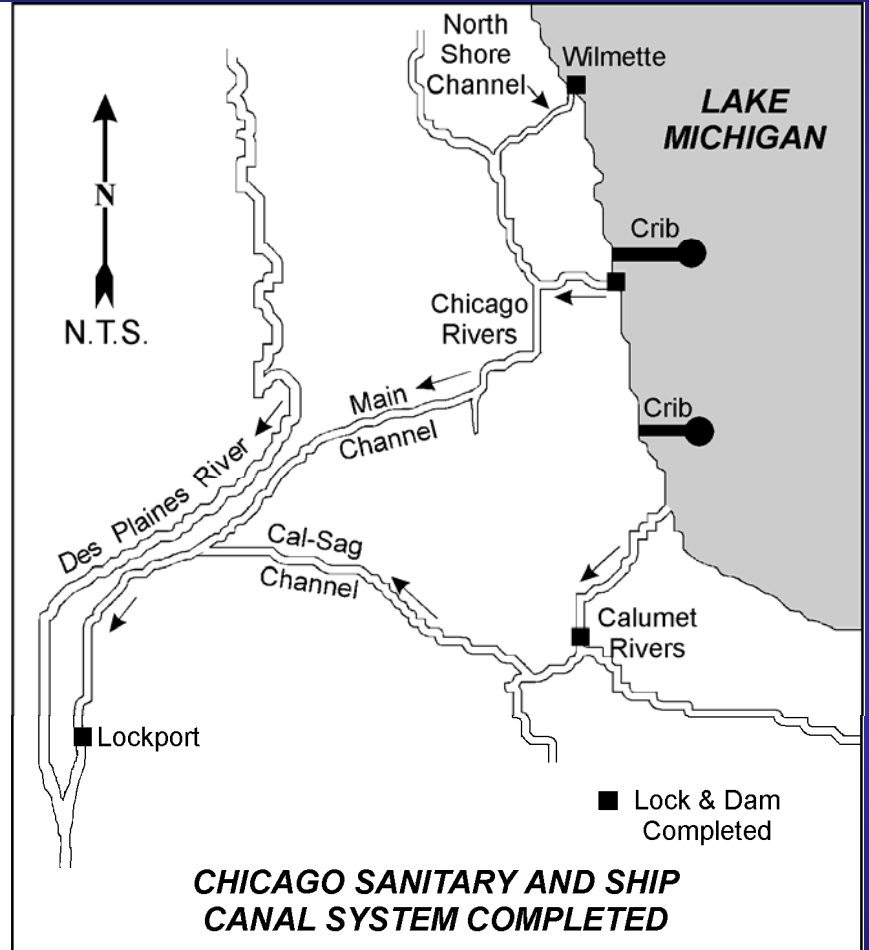
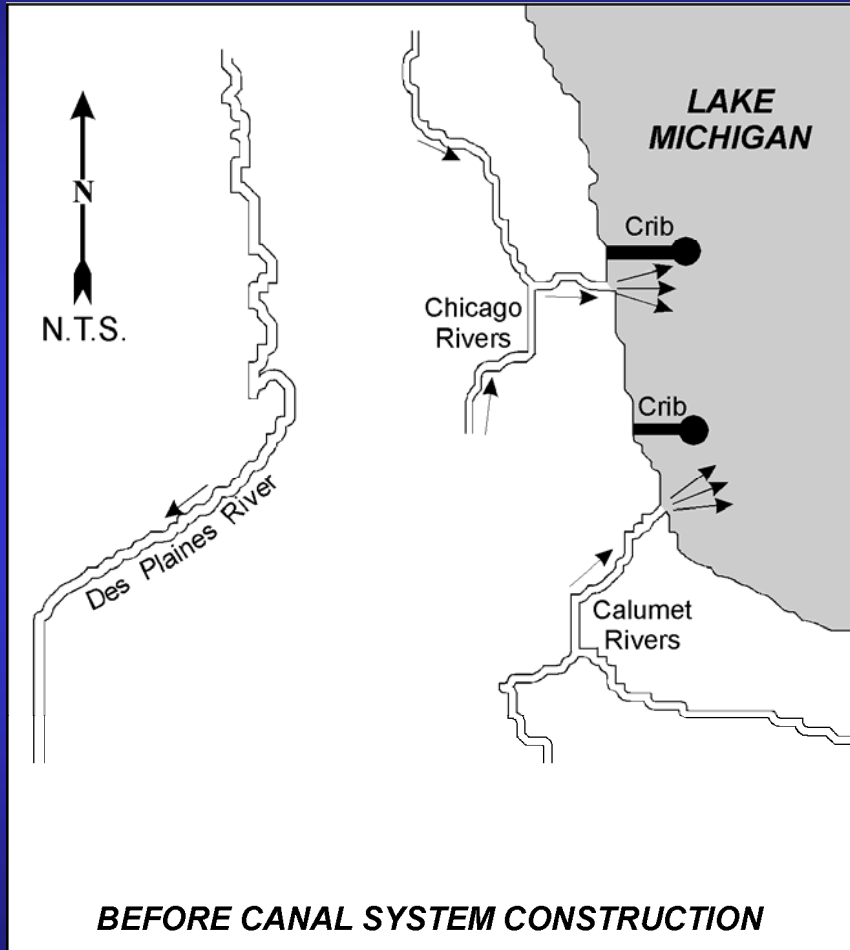


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# Why Are Barriers Necessary?



# WRDA 2007

- **Both Barriers a Single Project**
- **100% Federally Funded including O&M**
- **Credit to be Provided to States that Contributed to Barrier II**
- **Upgrade Demonstration Barrier to Permanent**
- **Complete Barrier II, No Authorized Funding Ceiling**
- **Study of Reducing Hazards to Barrier Effectiveness**
- **Feasibility Study of Full Range of Options and Technologies for Interbasin Control of Great Lakes-Mississippi River Aquatic Nuisance Species**



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# Demonstration Barrier



# Demonstration Barrier Status

- In Continuous Operation
- Maintaining Necessary Field Strength
- Will Operate Until Barrier II is On-Line



# Permanent Barrier Design

## Chicago Sanitary and Ship Canal Electric Fish Barrier 2



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Smith-Root, Inc.  
Technology For Fisheries Conservation



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# Permanent Barrier Status

- **IIA Construction Complete**
- **Ongoing Safety Investigations**
  - **Sparking Potential**
  - **Person in Water**
- **Complete Design & Begin Construction of IIB in FY08**



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# Person in Water Study

- Investigation by U.S. Navy Experimental Diving Unit
- Serious Injury or Death Could Result
- Safety Working Group Formed
- Public Education Campaign Underway



**U.S. ARMY CORPS OF ENGINEERS  
ELECTRIC FISH BARRIER  
HAZARDOUS VOLTAGES  
PRESENT IN CANAL WATERWAY**

**BOATERS ARE ADVISED TO EXERCISE EXTREME CAUTION WHILE NAVIGATING THE CHICAGO SANITARY & SHIP CANAL BETWEEN THE POWER PLANT TO THE PIPELINE ARCH(MILE MARKER 296.1 to 296.7)**

**HIGH RISK OF SERIOUS INJURY OR DEATH**

### PRECAUTIONS

**DO NOT** - Enter the water or place hands or feet in the water in the restricted area for any reason.

**PLEASE** - Closely supervise children and pets or send them below deck while in the restricted area.

**DO NOT** - Linger or attempt to moor in the restricted area.

### MAN OVERBOARD PROCEDURES

**DO NOT** - Enter the water to attempt a rescue.

**USE** - A non-metallic oar or similar item to pull the victim onto your boat as quickly as possible.

**NOTIFY** - Authorities by calling 911 or by broadcasting a distress call on VHF Channel 16.

For additional information, contact the U.S. Army Corps of Engineers at (312) 846-5330 or visit our safety website at [www.frc.usace.army.mil/safety](http://www.frc.usace.army.mil/safety)



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# Total Project Costs

- FY08 Appropriation \$8,610,000
- \$6.25 M in FY09 Budget for Barriers I & II
- Total Project Cost = \$29.6 M
- Future Barrier System Annual O&M Cost = \$1 M
- Feasibility Study Total Cost Estimate = \$10 M



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## Next Steps

- **Maintenance Shutdown of Demo Barrier (Sep 08)**
- **Initiate IIB Construction (August 08)**
- **Complete IIB Construction (FY09)**
- **Initiate Hazards Study (FY08)**
- **Initiate Permanent Barrier I Construction (FY09)**
- **Feasibility Study Requires GI New Start Funding**



**For More Information**

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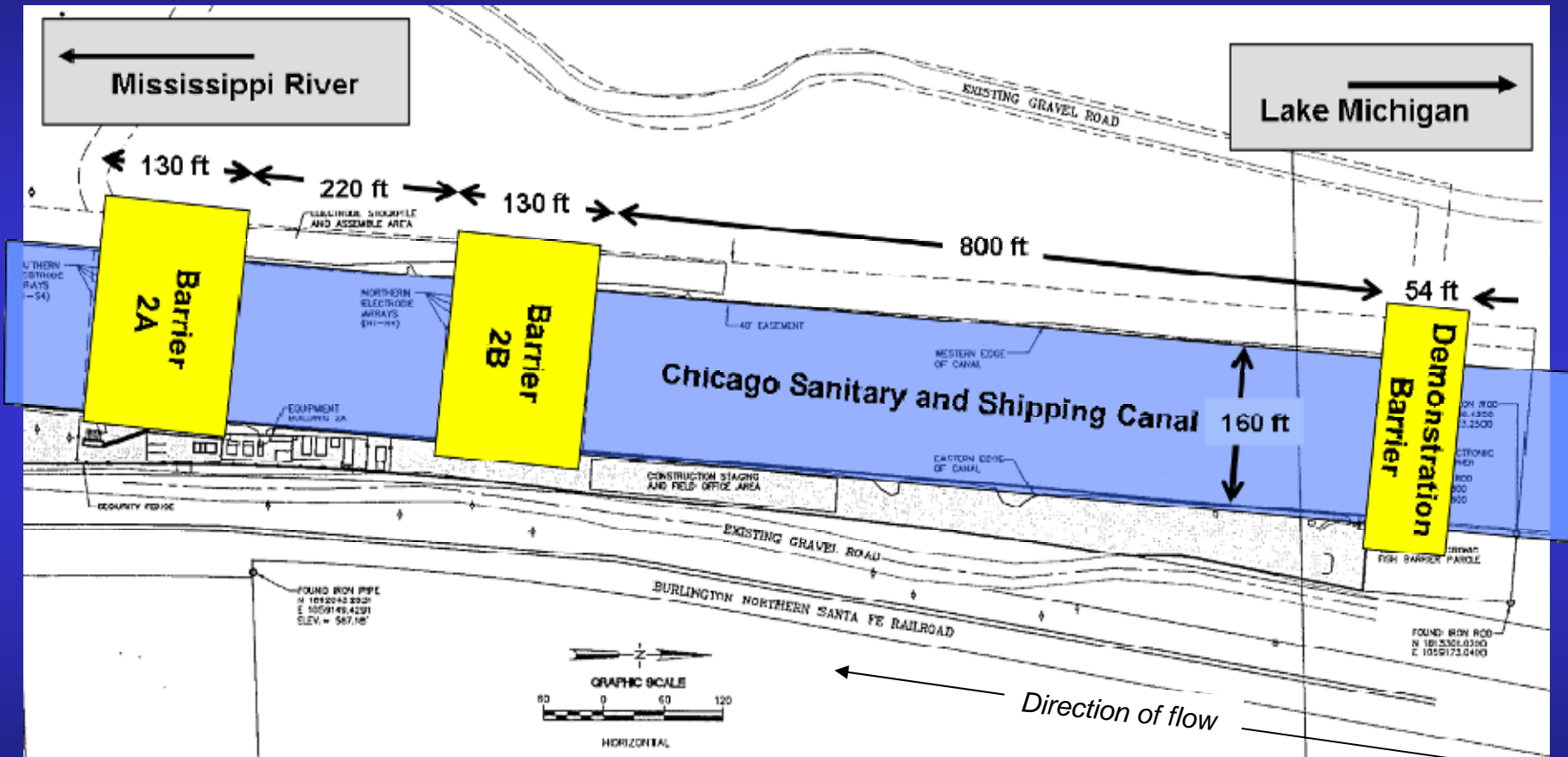


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# Relative Location of Barriers



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