The Calumet Initiative

Nicole Kamins Chicago Department of Environment

Historic photos courtesy of Southeast Chicago Historical Society





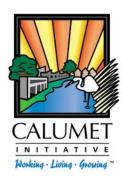


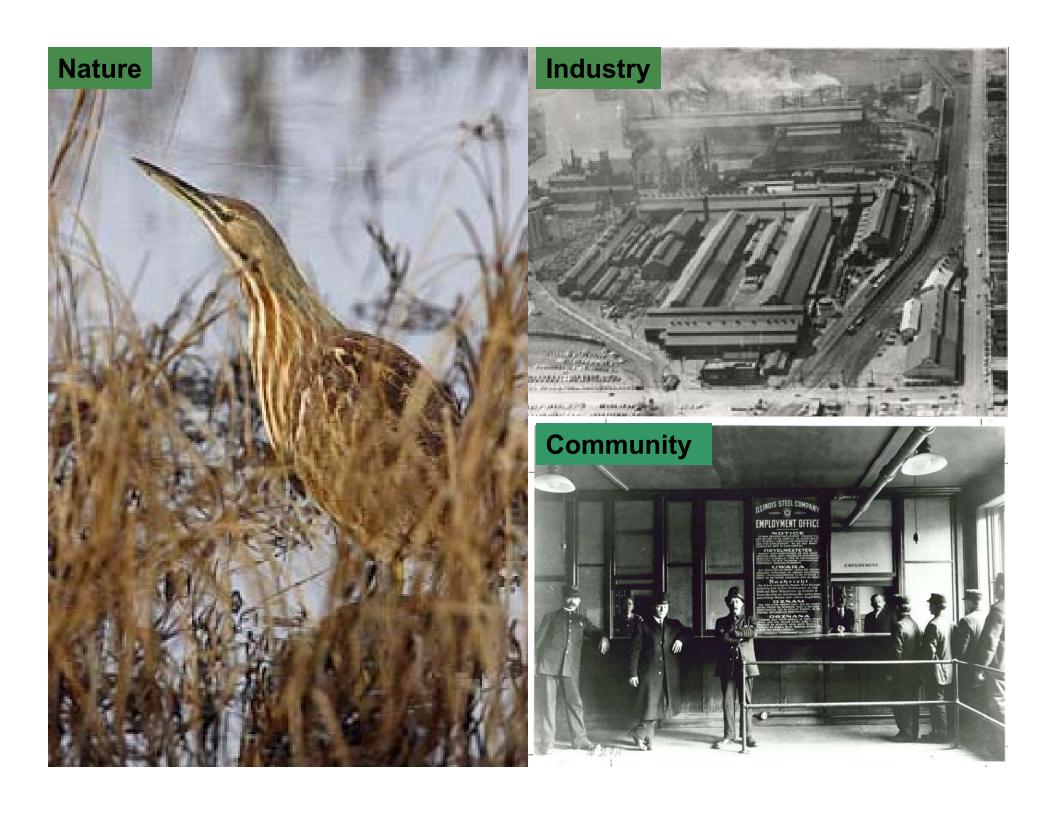




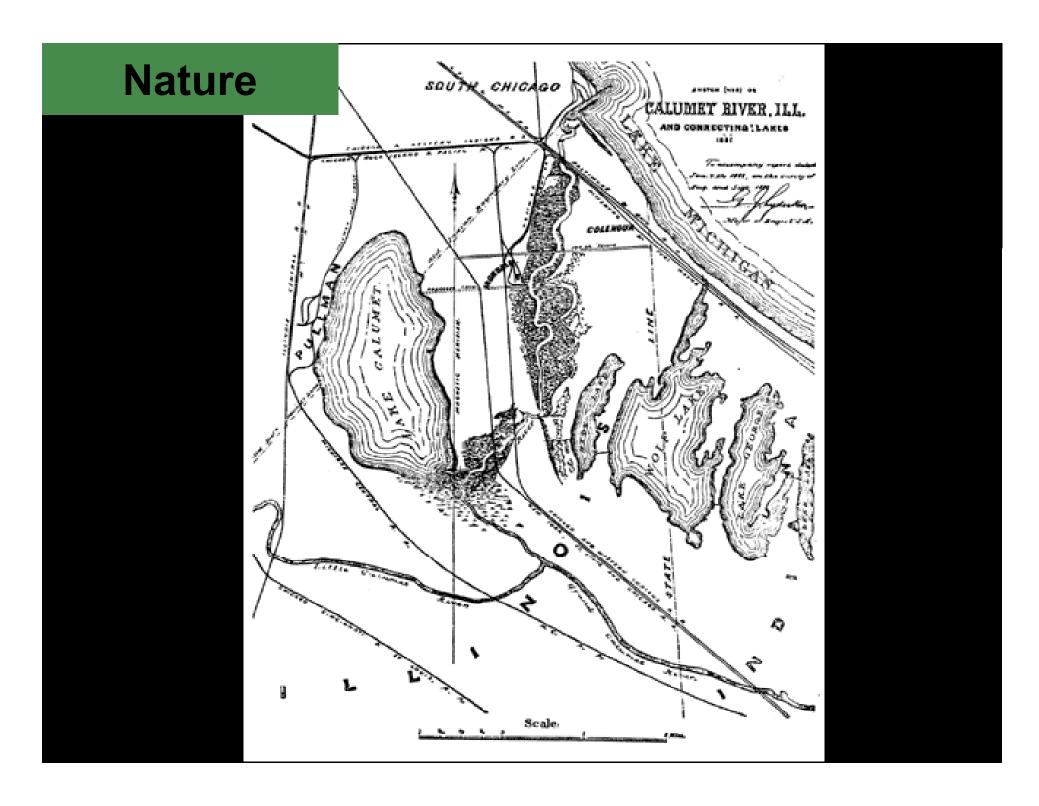
CHICAGO'S ENVIRONMENTAL

FUND









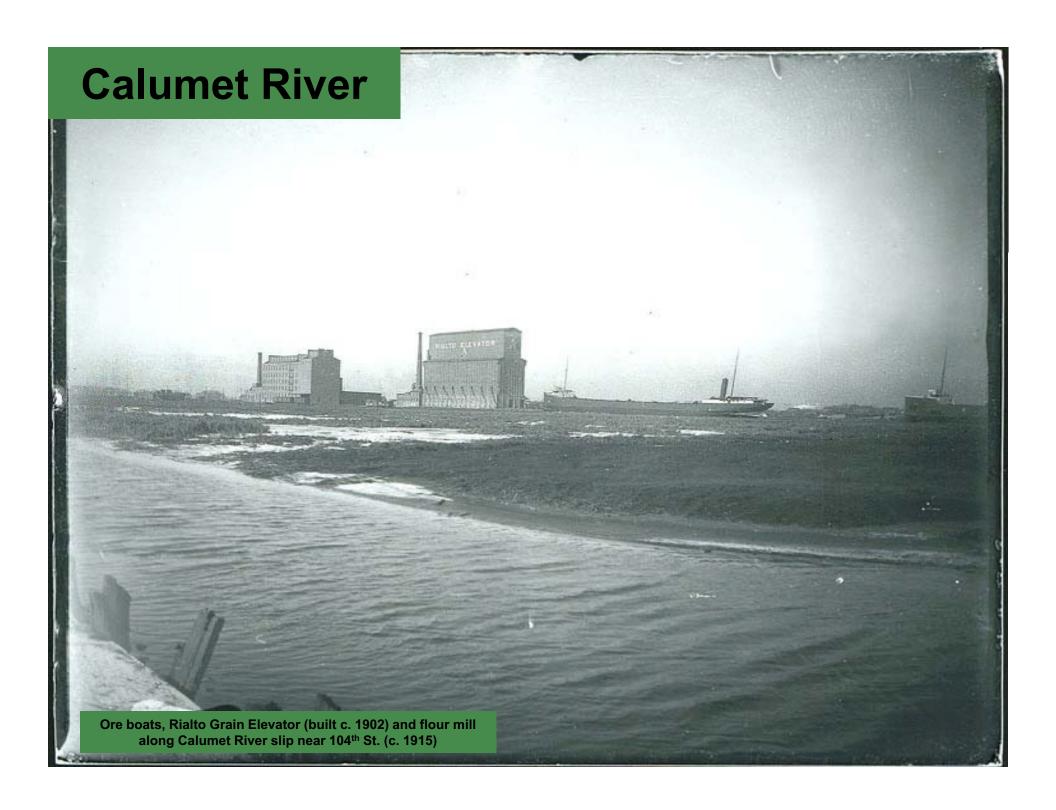


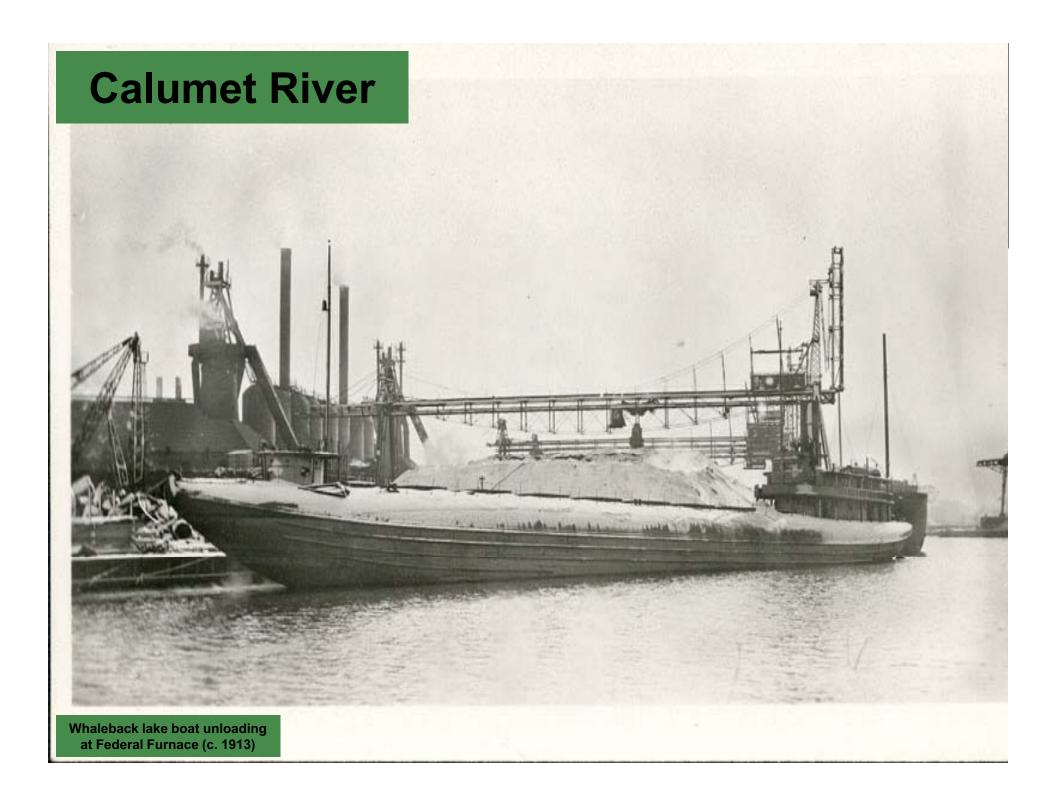


Development of Southeast Side

- Lake Michigan
- Calumet River
- Railroad
- Natural Resources
- Wetland Filling



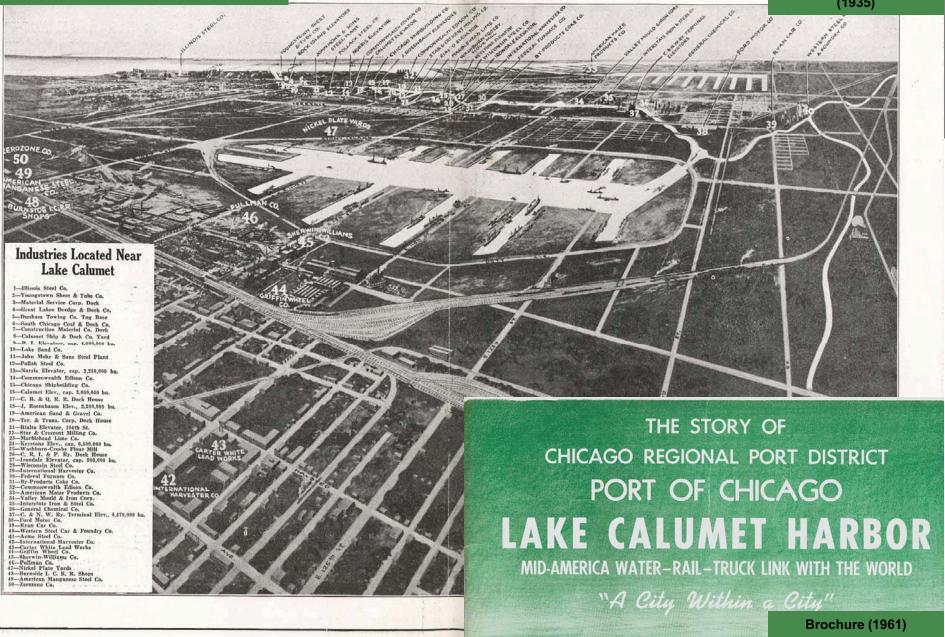


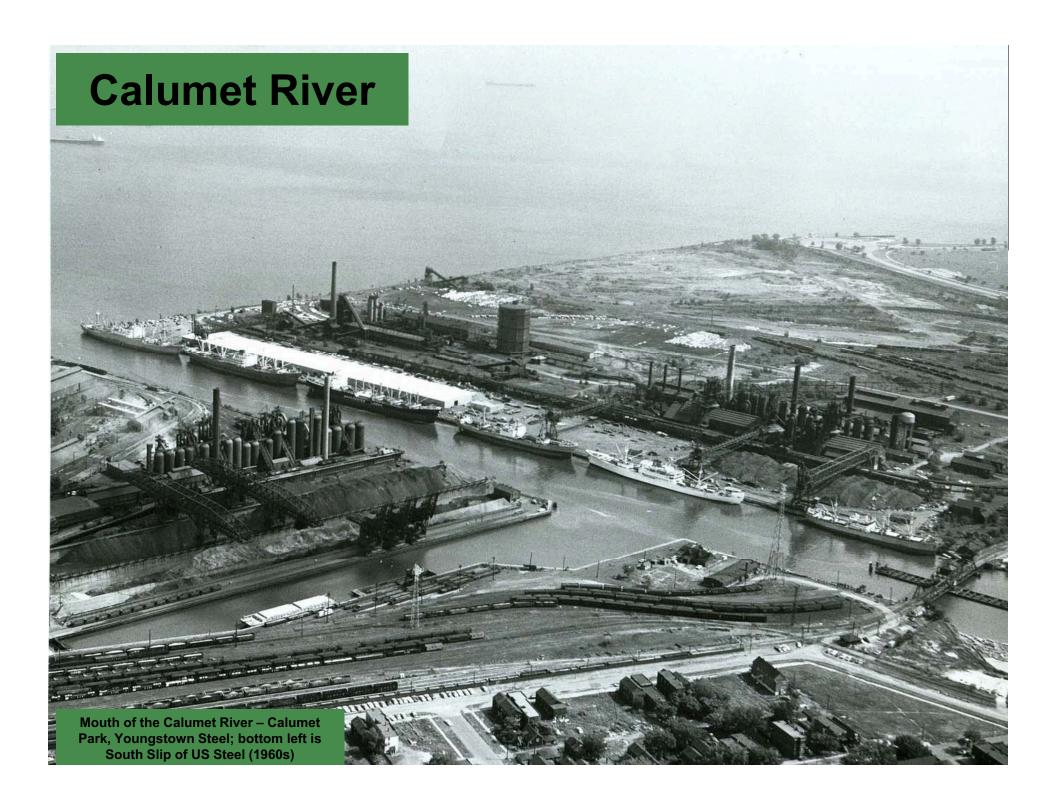




Lake Calumet

Brochure – Calumet Waterway Celebration (1935)





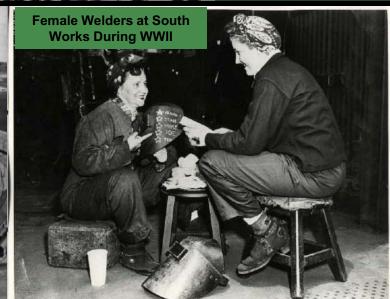


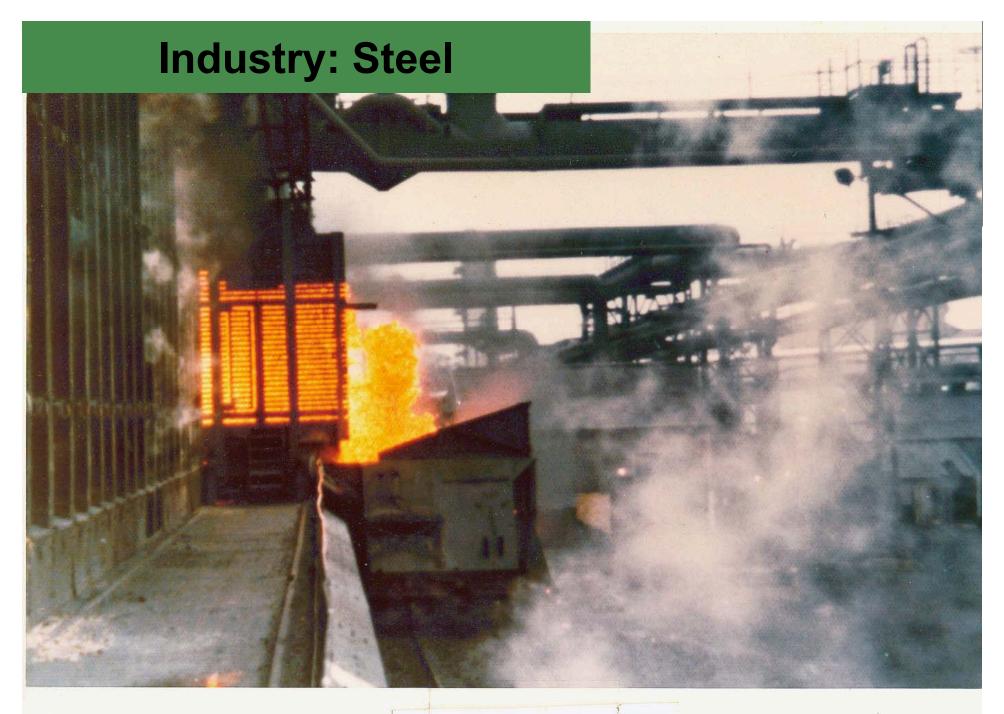
Industry: Steel

1875 to 1992





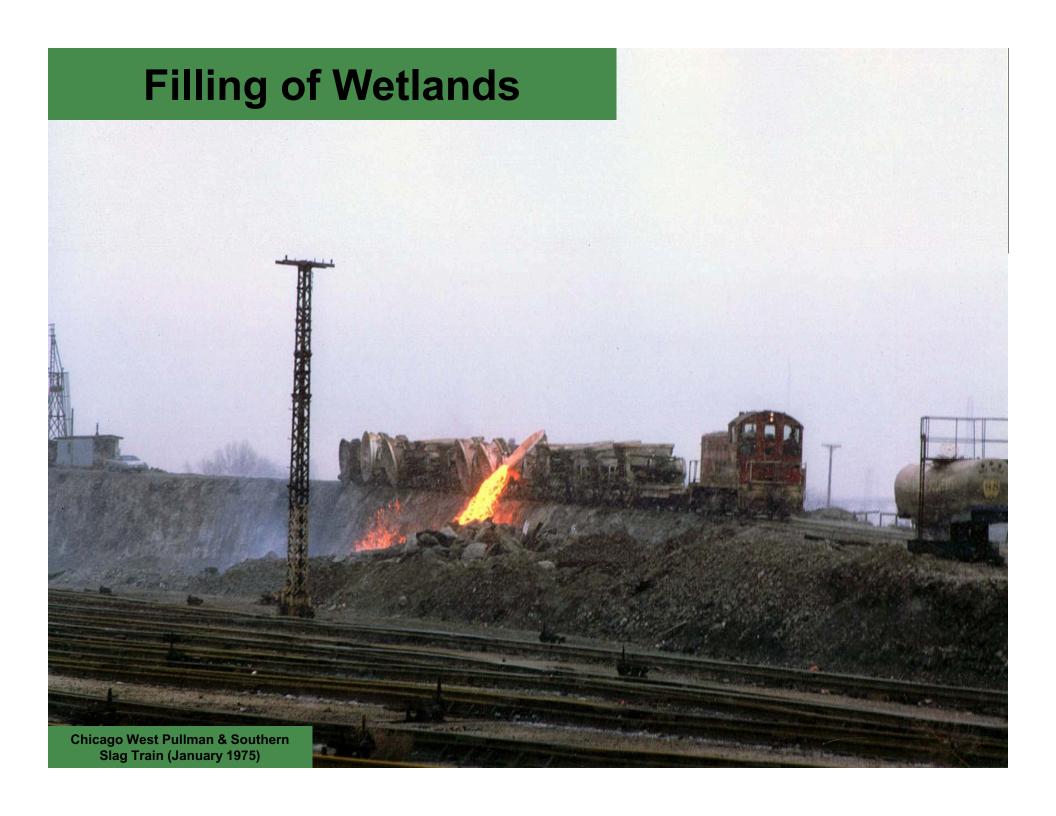


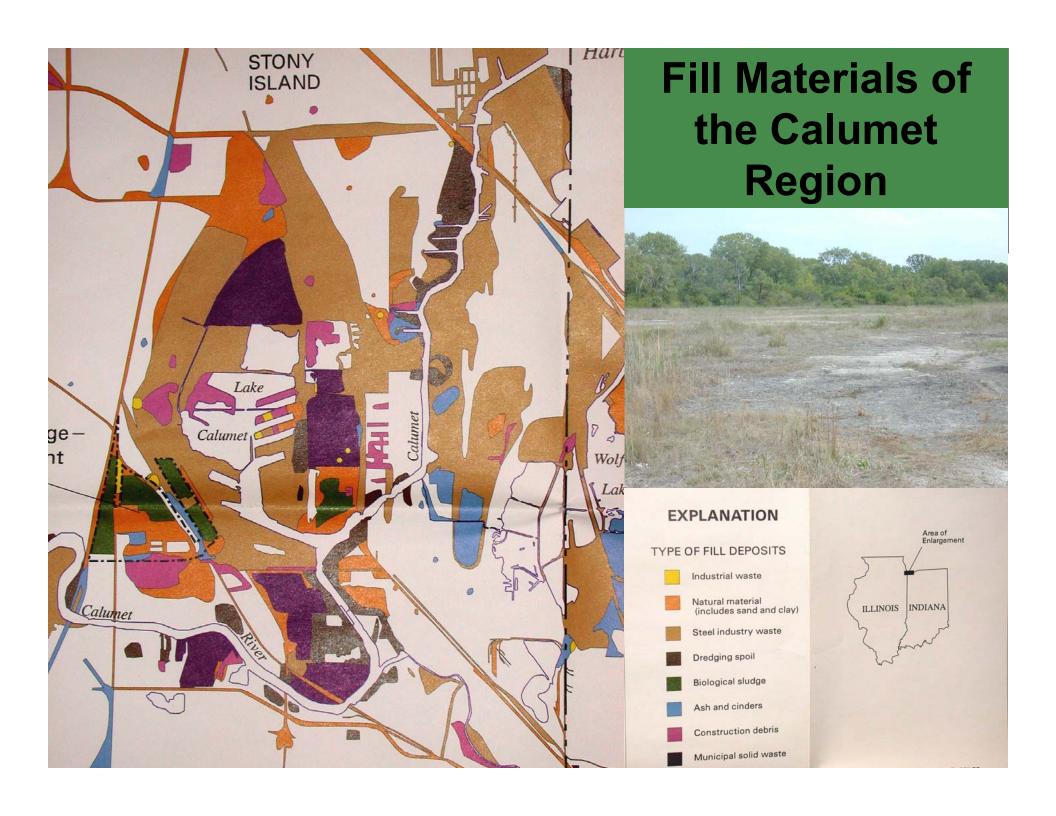




Filling of Wetlands



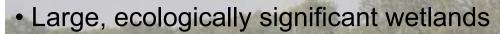




Nature Today: Challenges



Nature Today: Opportunities



- Habitat for 40% of state-listed flora/fauna
- 11 sites in INAI
- 2004 Audubon Society IBA
- Urban setting
- Interpretive opportunities



No Small Plans

LAKE MICHIGAN CALUMET Calumet Open Space Reserve PRAIRIE 103RD ST LAKE ILITH ST CALUMET LAKE CALUMET 115TH ST CALUMET CITY OF HAMMOND WETLANDS 123RD ST WOLF LAKE LITTLE CALUMET RIVER 130TH ST Little Calumet Rive GRAND CALUMET RIVER

Calumet Initiative Partners

ACADEMIA: Chicago State University, DePaul University, Governor's State University, Illinois Institute of Technology, Loyola University, Michigan State University, Northwestern University, Notre Dame, Purdue University, University of Illinois at Chicago, University of Illinois Urbana Champaign, University of Michigan-Ann Arbor

LOCAL AND STATE GOVERNMENT: Chicago Department of Environment, Chicago Department of Planning and Development, Chicago Department of Business and Information Systems, Chicago Park District, Alderman John Pope (10th Ward, Chicago), Alderman Anthony Beale (9th Ward, Chicago), Alderman William Beavers (7th Ward, Chicago), City of Hammond, Indiana, Forest Preserve District of Cook County, Illinois Department of Natural Resources, Illinois Environmental Protection Agency, Illinois International Port District Authority, Illinois Natural History Survey, Illinois State Geological Survey, Illinois State Water Survey, Illinois Waste Management Research Center, Indiana Department of Environmental Quality, Indiana Department of Natural Resources, Metropolitan Water Reclamation District of Greater Chicago, Northeastern Illinois Planning Commission, Cook County Dept of Office Technology

FEDERAL GOVERNMENT: Illinois-Indiana Sea Grant; Urban Resources Partnership, US Army Corps of Engineers, US Department of Agriculture Forest Service North Central Research Station, US Environmental Protection Agency, US Fish and Wildlife Service, US Geological Survey, US National Park Service, US Natural Resources Conservation Service

ENVIRONMENTAL ORGANIZATIONS AND MUSEUMS: Bird Conservation Network, Brookfield Zoo, Chicago Academy of Sciences, Chicago Audubon Society, Chicago Ornithological Society, Chicago Wilderness, Field Museum of Natural History, Friends of the Chicago River, Grand Calumet Task Force, Illinois Audubon Society, National Audubon Society, Openlands Project, Shedd Aquarium

LOCAL RESIDENT-LED ORGANIZATIONS: Calumet Ecological Park Association, Calumet Heritage Partnership, Hammond Parks Foundation, Hegewisch Chamber of Commerce, Historic Pullman Foundation, Lake Calumet Ecosystem Partnership, Ridge Historical Society, Southeast Environmental Task Force, Wolf Lake Bi-State Gatherings

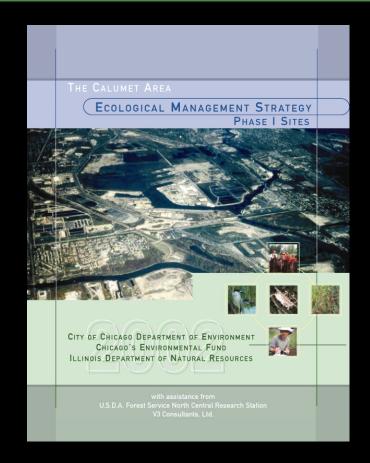
INDUSTRY: Acme Steel, Calumet Area Industrial Commission, Ford Motor Company, Southeast Chicago Development Commission, USA/Waste Management Corp

CHICAGO AREA CONSULTING FIRMS: V3 Consultants, Envirocom, Kudrna & Associates, TAMS Consultants, The Wetlands Initiative, Wolff Clements and Associates, Jacobs-Ryan Associates, Applied Ecological Services

FOUNDATIONS: Chicago's Environmental Fund, Gaylord and Dorothy Donnelley Foundation, Max McGraw Wildlife Foundation

MISCELLANEOUS: Institute of Nature and Culture, Nature, Polis and Ethics

Calumet Area Ecological Management Strategy



Chicago Department of Environment
Illinois Department of Natural Resources
Chicago's Environmental Fund

with assistance from
USDA Forest Service North Central Research Station
V3 Consultants and Jacobs/Ryan Associations

Calumet Hydrologic Master Plan

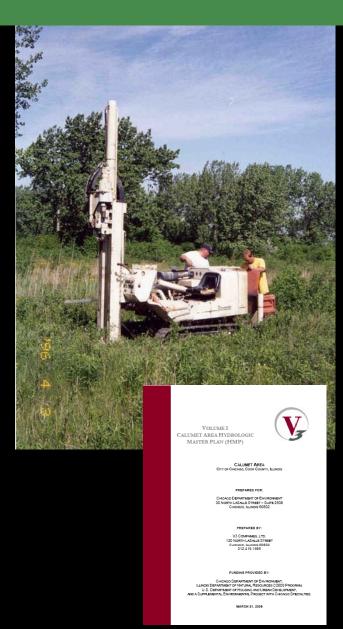
Timeline: Released September 2006

Funding: IDNR C2000 program, City of Chicago, Chicago Specialties Supplemental Environmental Project (SEP), US Dept of Housing and Urban Development

Advisors: George Roadcap (ISWS) and Michael Miller (ISGS)

Sites: Indian Ridge Marsh, Heron Pond, Deadstick Pond, Big Marsh, Lake Calumet, Conservation Area, Pullman Creek; later additions include Hegewisch Marsh and Van Vlissingen Prairie

Goal: To assess the hydrology of the region, connections between sites, status of water control structures, bathymetry of wetlands and topography of the area. To test general water quality at some sites (pH, DO, turbidity, etc.) Recommendations are provided.



Calumet Ecotox Protocol

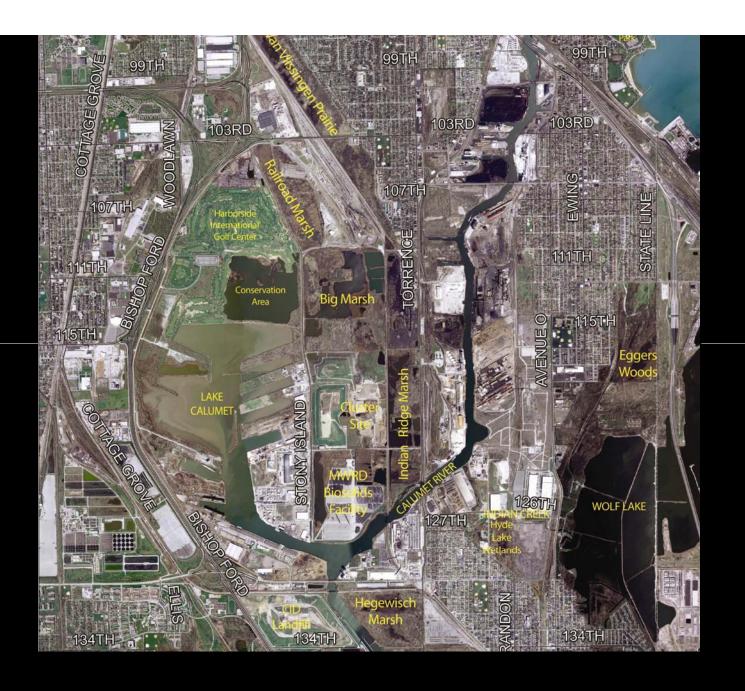
Protecting Calumet's Plants and Animals

Multi-agency effort to create ecotoxicological standards for Calumet open space plans

- Chicago Department of Environment
- US Environmental Protection Agency
- US Fish and Wildlife Service
- Illinois Department of Natural Resources
- Illinois Environmental Protection Agency
- Illinois Natural History Survey
- Chicago Park District
- Forest Preserve District of Cook County
- Waste Management and Research Center







Ecological Rehabilitation Project



Ecological Rehabilitation Project

Debris Removal 140 Locations









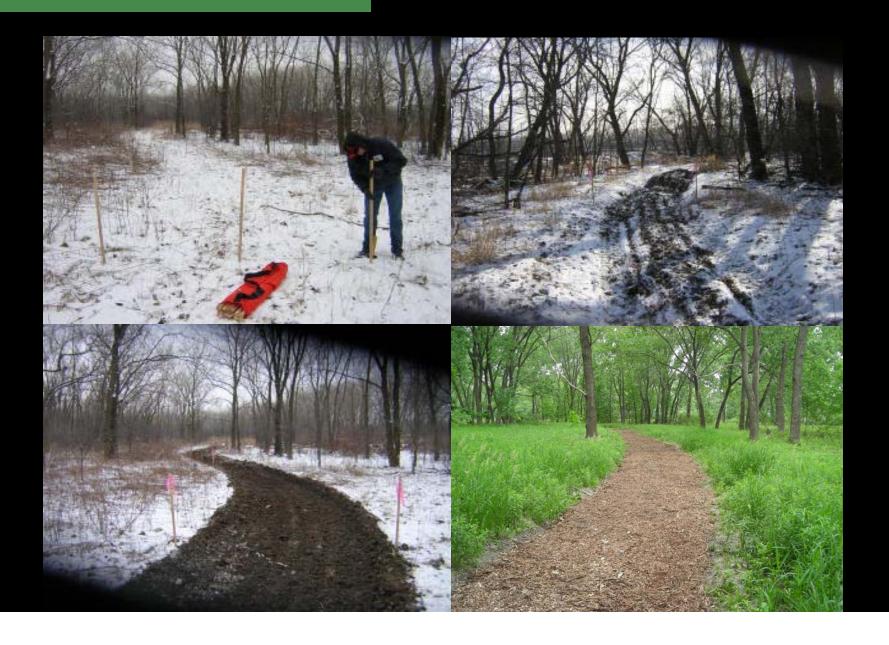
Ecological Rehabilitation Project

Woody Invasives Removal



Ecological Rehabilitation Project

Trail Staking / Grading



Ecological Rehabilitation Project

Herbaceous Invasives Control

Reed Canary Grass

Common Reed

Kentucky Bluegrass

Canada Thistle

Garlic Mustard

Common Teasel

Cut-Leaved Teasel

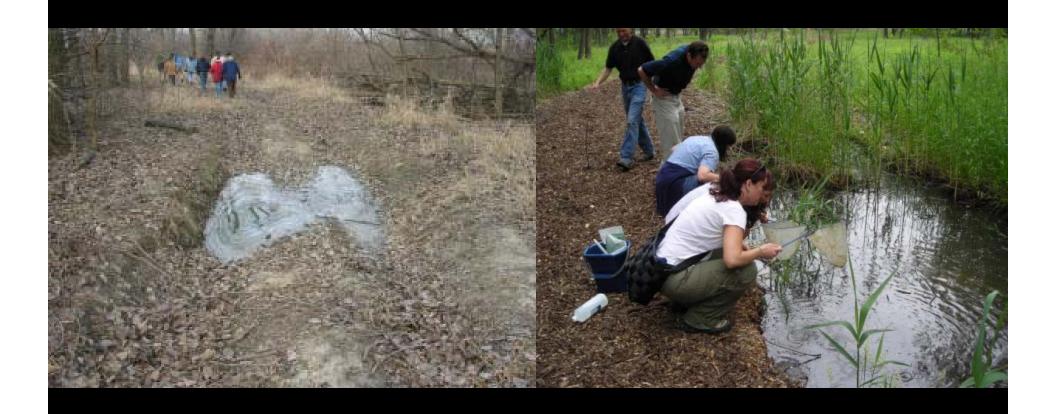
Sweet Clover

Purple Loosestrife



Ecological Rehabilitation Project

Vernal Pool Enhancement





Ecological Rehabilitation Project

Tree and Shrub Planting – Nov 5, 6 & 14, 2007

- Eastern Hophornbeam
- Sycamore
- Bur Oak
- Swamp White Oak
- Black Oak
- Nannyberry Viburnum

Tree Study with US Forest Service

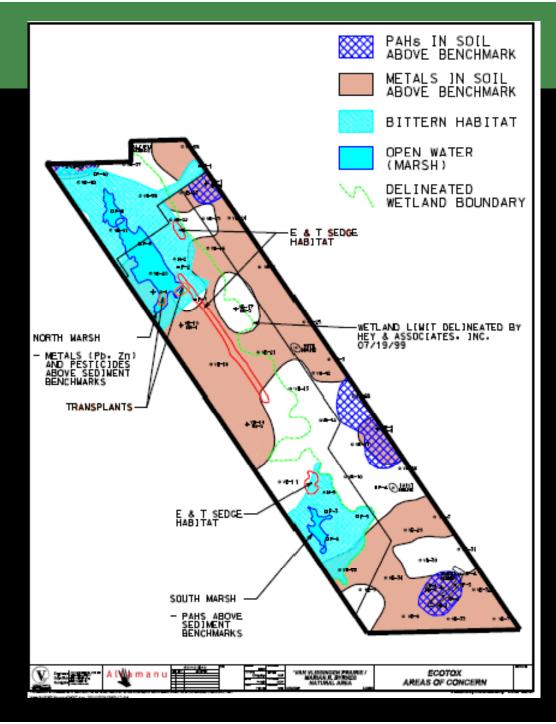




Hegewisch Marsh Current Habitat Map



Other Sites



For Discussion

- Urban, contaminated sites challenging (and fascinating) to restore
- Need to think creatively about how to manage sites to balance needs of ecological receptors, human visitors, regulatory mechanisms, and hydrologic regimes
- Thinking of the Calumet region as a whole system rather than disparate sites is key; hydrology is driver
- Intensive collaboration has led to the success of the effort partners are vested in outcomes
- Consistent public outreach is necessary for continued buy-in
- Target non-traditional funding sources (ex: SEP) to assist with difficult-to-fund tasks
- "Patience is a Virtue" big plans take time



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