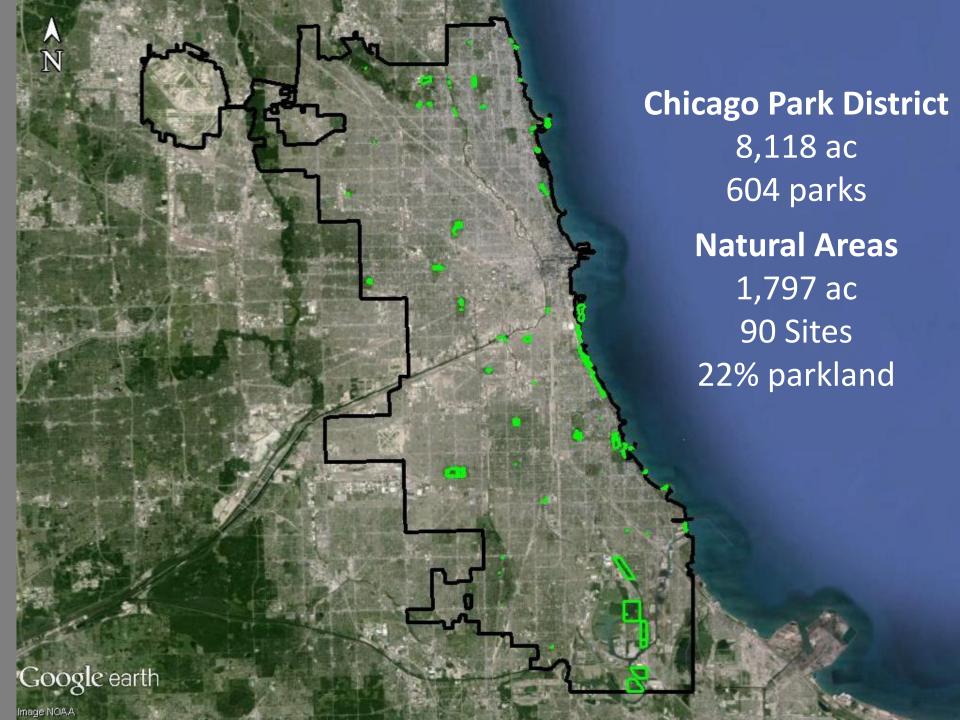
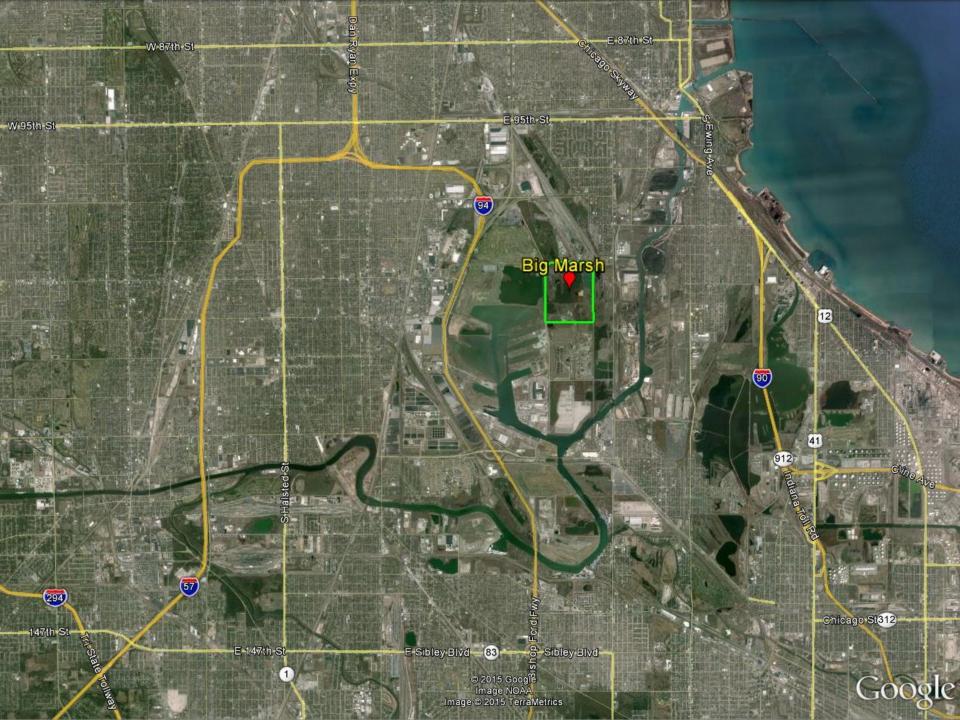


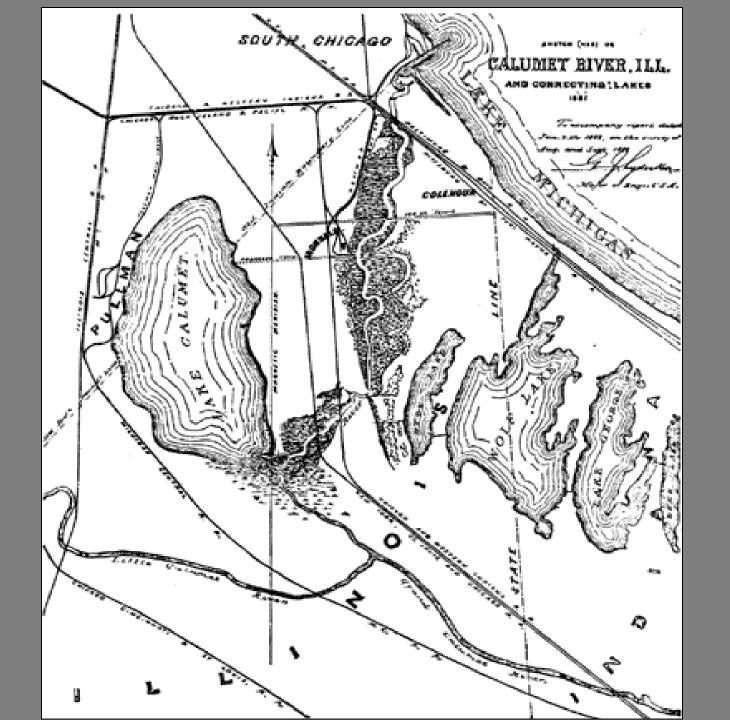


Timeline

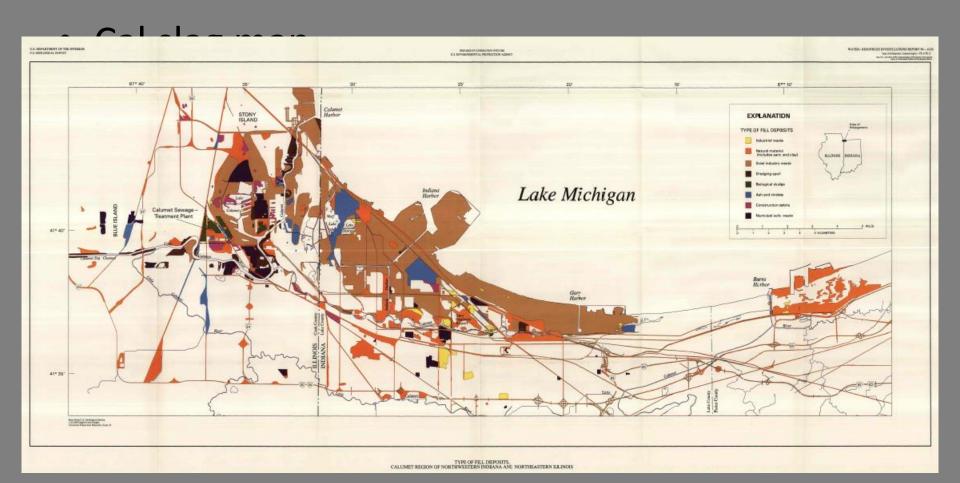
Early 1800s	Big Marsh was part of a network of wetlands adjacent to and sometimes a part of Lake Calumet.
1905-1929	Acme Steel coke plant was constructed and gradually expanded to meet growing demand for steel. By 1909, the plant covered 100 acres, forming the eastern edge of Big Marsh.
1950s-1970s	Large-scale dumping of hot molten slag from/by the neighboring steel mills occurred on the site, forming much of the surface conditions at the south and eastern sections of the site
1960s	The reshaping of Lake Calumet as an international port and construction of Stony Island Avenue resulted in a change in the shorelines and western edge of the site.
1981	Waste Management purchased the site for future development as a landfill.
1984	City of Chicago approved a moratorium barring new landfills from opening and preventing existing ones from expanding. This and subsequent bans prevented Big Marsh from being filled with waste, but wetland conditions degraded as invasive vegetation began to encroach and dominate.
2008	City of Chicago purchased Big Marsh for ecological restoration.
2011	Ownership of the property was transferred to Chicago Park District, establishing the site as Park #564.

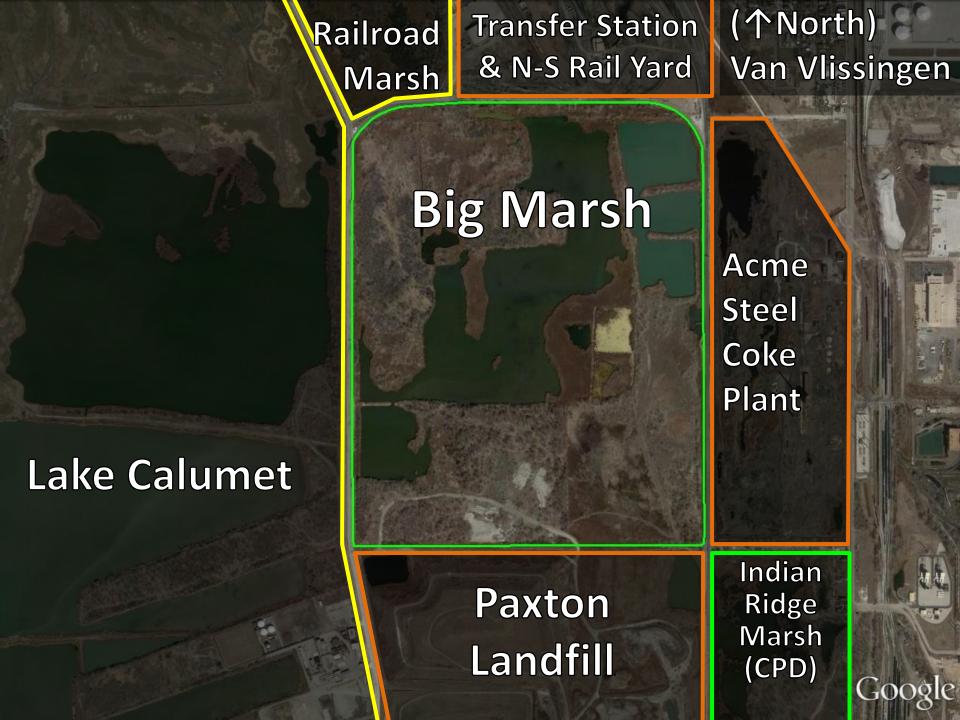






Where is slag?

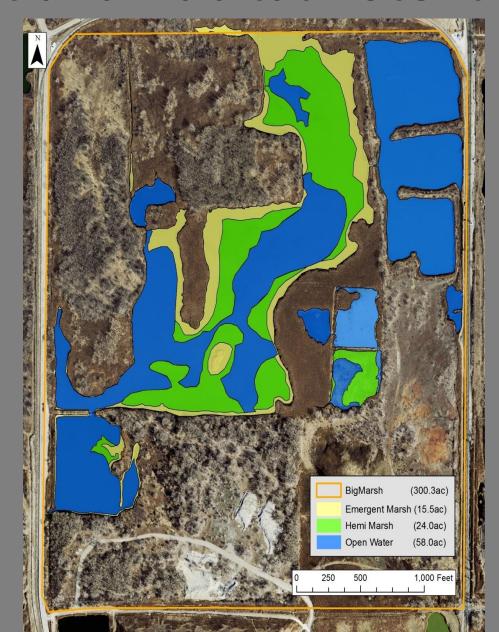








Wetland Habitat Potential

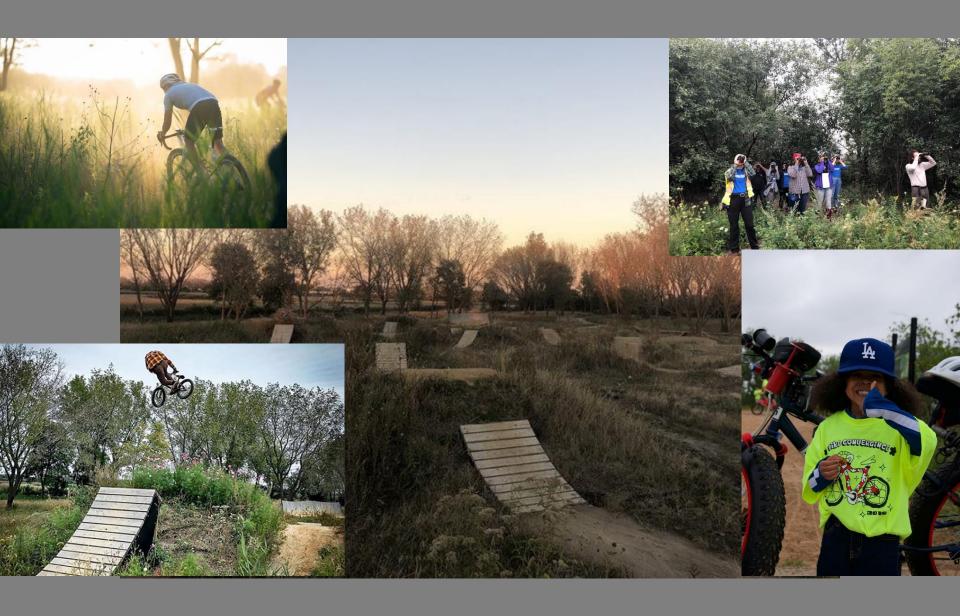


G. Sullivan 2017 Water @ 582.00 NAVD88



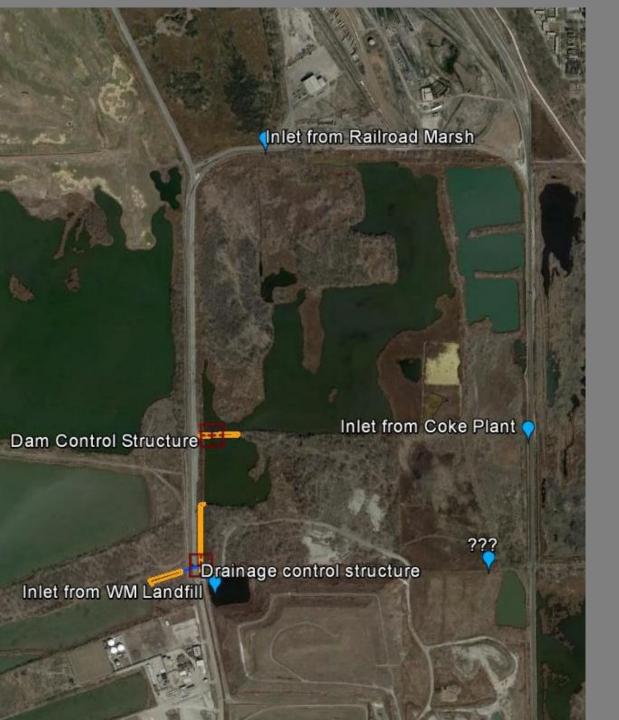






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Altered Hydrology

- Water inputs from adjacent properties: Railroad Marsh (North) Coke Plant (East) WM Landfill (South)
- Drainage through (defunct) dam, ditch, old control structure and clogged culvert, and into Lake Calumet
- High water levels
 = open water, no
 emergent wetland

Restoring the Hydrologic Connections





Restoring Hydrologic Connections to Lake Calumet



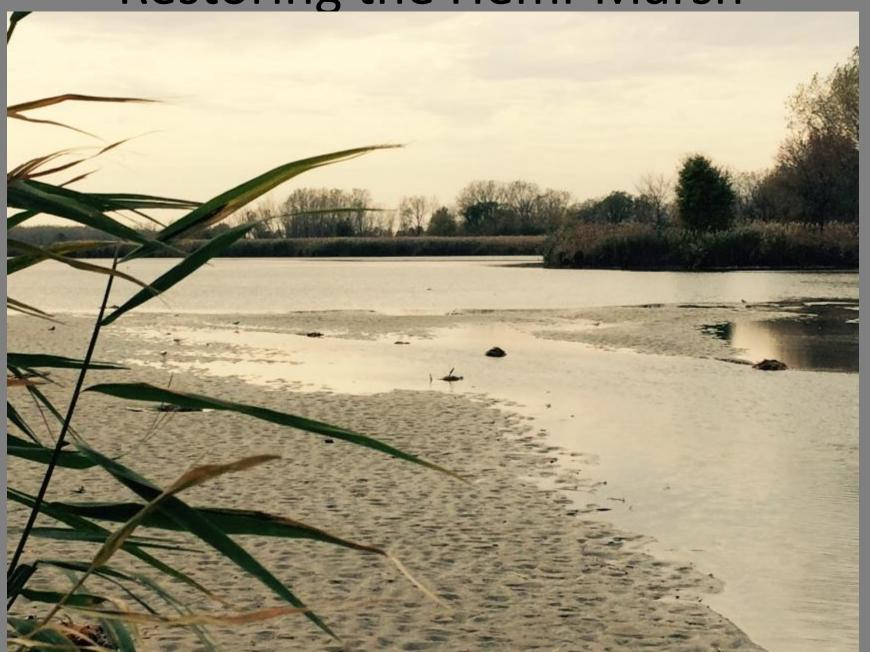
Water Control Structure



Connecting Deep Pools to Marsh



Restoring the Hemi-Marsh







2014 Aerial of Phragmites



2014 Aerial of Buckthorn



Fall 2015 Aerial Invasive Species Treatment



Spring 2016 Prescribed Burn



Secretive Marsh Birds

Species of Concern (Monitored by Audubon Great Lakes)

- 2015 2 of 14 species
- 2018 11 of 14 species
- Surpassed historical records

Other Birds

1981-2014 120 total species recorded

2019 238 total species



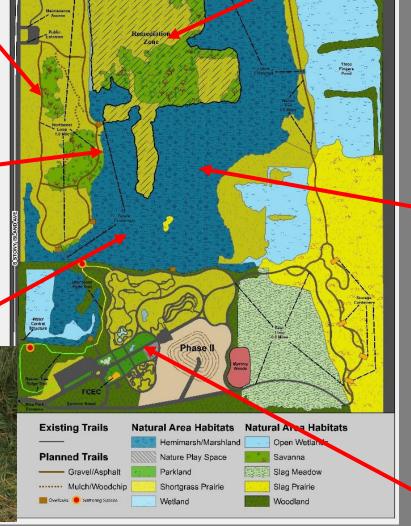
Restoration Progress

Big Marsh

2016 Burn & Buckthorn

2017
Remediation &
Restoration

2015 Water Control



2018 Capping



2015 Phragmites



2016 Bike Park Opens



RESEARCH COLLABORATIONS











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SCIENCE & NATURE

Chicago Park District Working to Heal Environment, Ecosystem at Big Marsh Park

Patty Wetli | January 28, 2021 2:09 pm





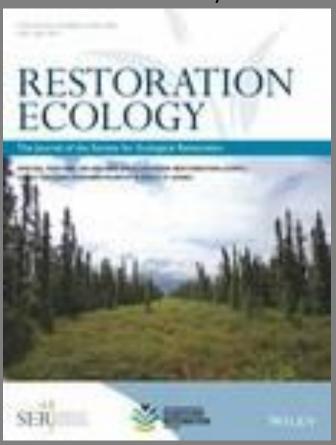
Lauren Umek of the Park District and research assistant Alifya Saify at Big Marsh Park. (Courtesy of Chicago Park District)

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Urban post-industrial landscapes have unrealized ecological potential

<u>Laura Merwin</u>, <u>Lauren Umek</u>, <u>Alison E. Anastasio</u> February 2022











Analogues to other habitats

Alvar - Öland, Sweden

Alvar – Niagara Escarpment, Ontario





Analogues to other habitats

Dolomite Prairie – Ted Stone, CCFPD



Dolomite Prairie – Midewin Nat'l Prairie



