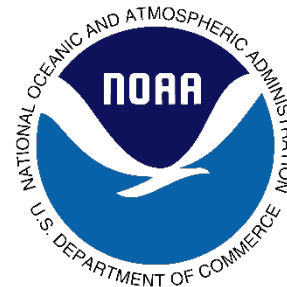


Lake Michigan Coastal Program



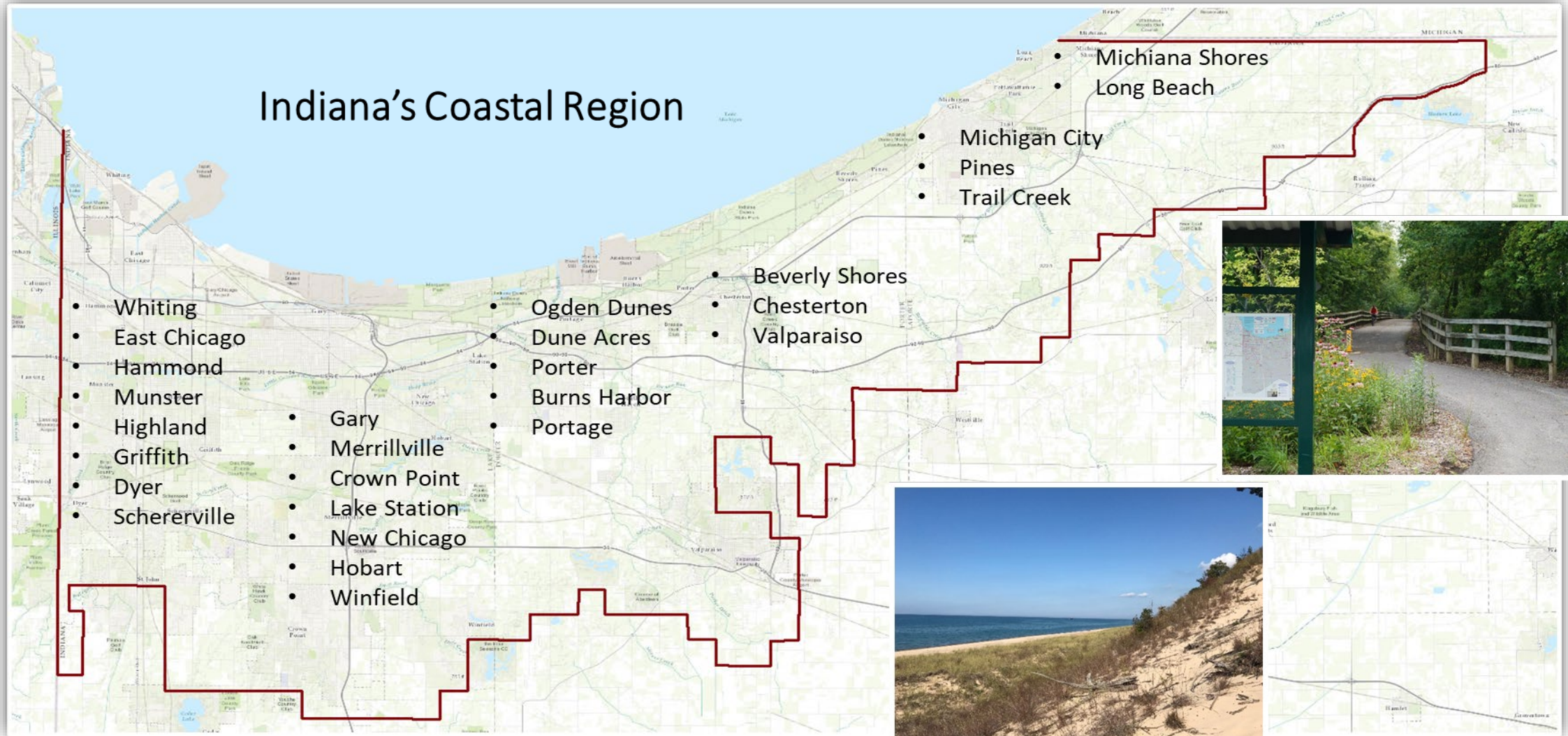
Jenny Orsburn
Lake Michigan Coastal Program
Program Manager

Lake Michigan Coastal Program

Coastal Zone Management Act
NOAA Office of Coastal Management

Approved program in 2002

Program Area – Lake Michigan watershed



The mission of the Lake Michigan Coastal Program is to protect and enhance **coastal resources** by providing technical and financial assistance and coordination to current and future partners.

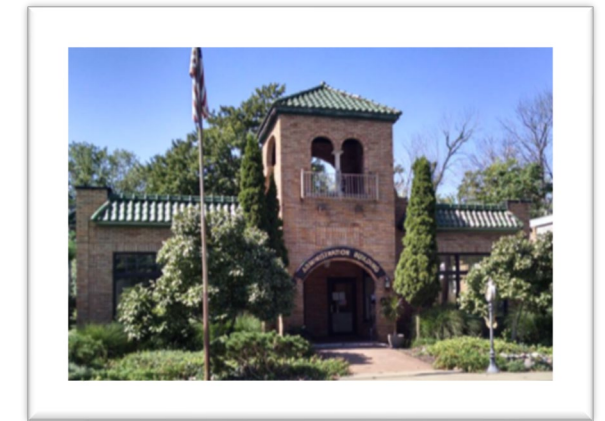
Public Land & Water



Natural Resources



Historical Resources





Our Partners

Federal Agencies

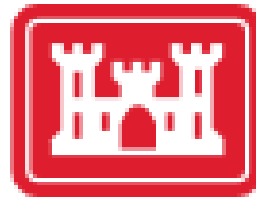
State Agencies

Counties

Cities & Towns

Universities & Schools

Non-profit Organizations



LMCP Priorities

NOAA

Vision:

Through a strong federal, state, and territory partnership, the nation's oceans and coasts are economically vibrant, resilient, and healthy for this and future generations.

LMCP and NOAA

- Indiana coastal communities are effectively planning and preparing for change
- Coastal ecosystems are protected, preserved, and restored for use and improved public access

Program Focus Areas

CZM Section 306

CELCP

CZM Section 306a

CZM Section 6217

CZM Section 309

Federal Consistency

Program Focus Areas

EPA CWA 319

EPA GLRI LAMP

Coastal States Organization



Great Lakes Commission



Great Lakes St. Lawrence
Seaway Water Resources



Council of Great Lakes
Governors

CZM Section 306

- Program Implementation
 - Training / Travel
 - Planning
 - Education / Outreach
 - Technical Assistance
- Coastal Grants Program
 - Education / Outreach
 - Planning / Coordination
 - Applied Research

CZM Section 306a

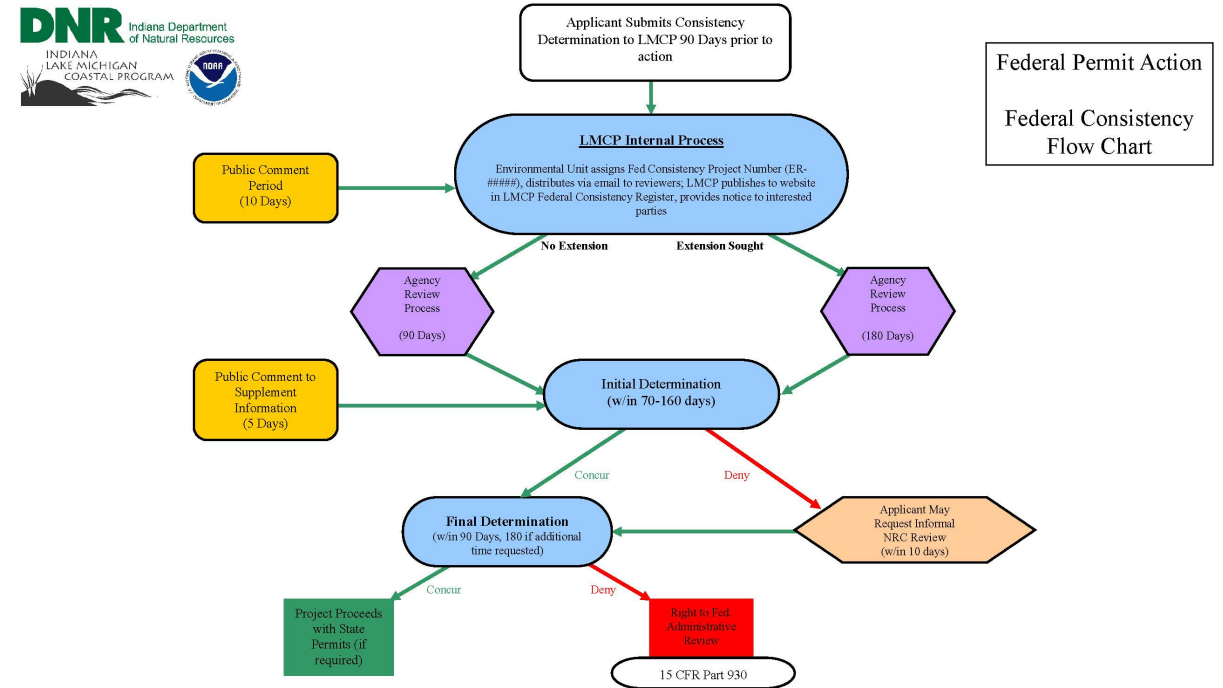
- Coastal Grants Program
- Low-Cost Construction
 - Public Access improvements
 - Habitat restoration
 - Cultural/Historical property improvements
- Land Acquisition

Section 309

- Program Enhancements
- Match free funding from NOAA
- 5 Year Plan
- Plan 2016 – 2020
 - Wetlands Functional Assessment
- Plan 2021 – 2025
 - Coastal Hazards -Coastal Resiliency

Federal Consistency

- Federal Consistency conforms direct and indirect federal activities with state law to the extent practicable.
- Federal Consistency is a legal acknowledgement under federal law of the importance of respect for state law.



CZM Section 6217 Coastal Nonpoint Source Pollution Program

Nonpoint Source Pollution

Agriculture

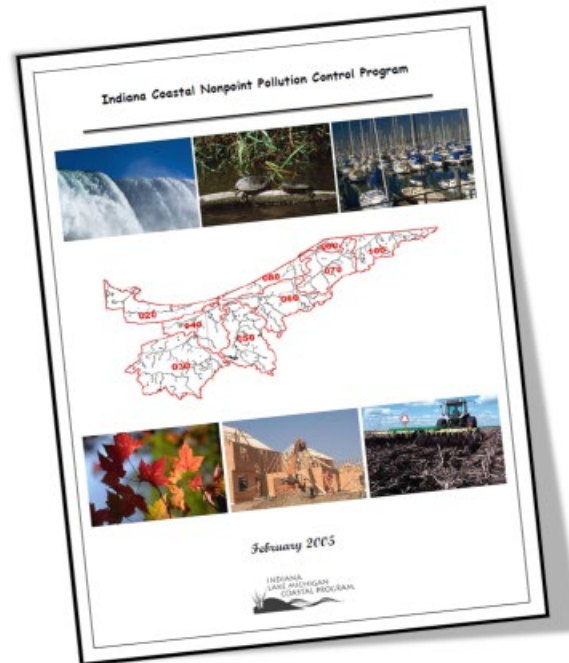
Hydro-
modification

Marinas

Forestry

Wetlands,
riparian areas,
& vegetated
treatment
systems

Urban &
rural areas



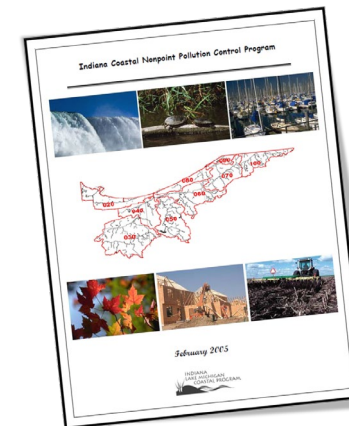
LMCP and IDEM Partnership

LAMP / RAP

- EPA / IDEM
- Great Lakes Water Quality Agreement
- Lake Michigan Partnership Management Committee and Working Group
- GLRI Focus Areas
- Grand Calumet River AOC RAP

319 and 6217

- NOAA / EPA / IDEM
- Last management measure to be approved by NOAA:
 - Onsite Sewage Disposal Systems



IDEM and LAMP

- GLRI Capacity funding for staff
- Coordinate efforts within DNR
- Participate in the workgroups
- Update Lake Michigan LAMP
- Education and Outreach projects
- Coordinate with DNR Land Acquisition and Grand Calumet Regional Ecologist



LAKE MICHIGAN

**Lakewide Action and
Management Plan**

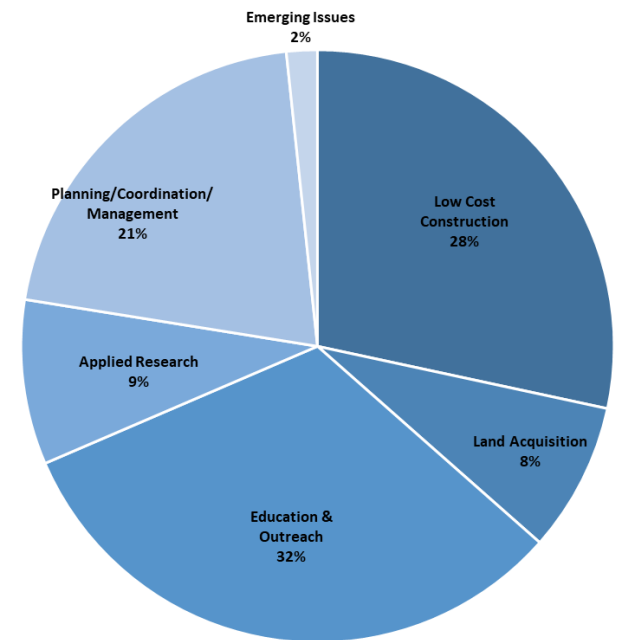
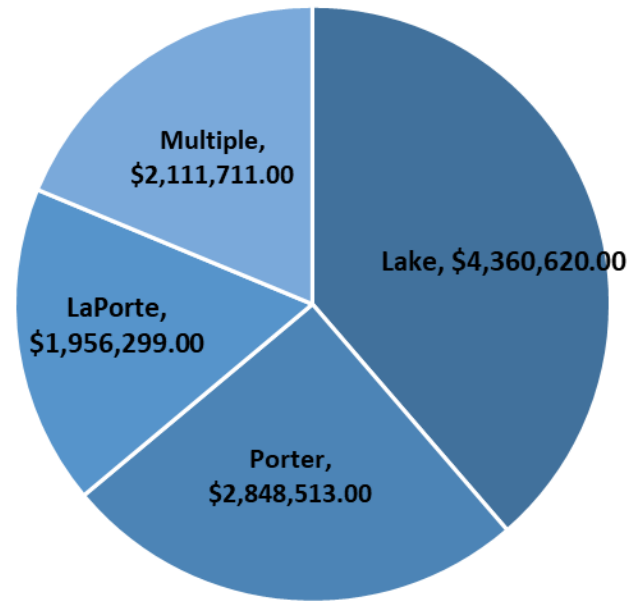
ASSESS • PROTECT • RESTORE • REPORT

IDEM and 319

- LMCP receives approximately \$100K annually to implement coastal nonpoint source pollution program objectives
- Microbial Source Tracking
- Good Neighbor Program – Ambassadors
- Septic Workgroup
- Septic Inspection Tracking
- Staff support

LMCP Grants

- Annual competitive Pass-Through grants program
- Since 2002 invested \$21,226,300 in Northwest Indiana
- With match approximately \$42M investment



LMCP and Coastal Resiliency

- Governor Holcomb Executive Order 20-01
- ACOE Great Lakes Coastal Resiliency Study
<https://www.glc.org/wp-content/uploads/GLC-Board-GLCRS-Outreach-Fact-Sheet-21Aug17.pdf>
- Coordinate with Indiana DHS
- Workshops, studies, collaborations, projects, etc.

STATE OF INDIANA
EXECUTIVE DEPARTMENT
INDIANAPOLIS

EXECUTIVE ORDER 20-01

FOR: EFFORTS BY INDIANA AGENCIES AND INSTRUMENTALITIES TO ASSIST IN LAKE MICHIGAN SHORELINE RELIEF

TO ALL WHOM THESE PRESENTS MAY COME, GREETINGS.

WHEREAS, the water level of Lake Michigan is cyclical and varies substantially based on a number of factors, such as the amount of precipitation, runoff, and evaporation;

WHEREAS, Lake Michigan's water level is currently near a record-high, which is causing significant erosion of beaches, banks, bluffs, and other properties along Indiana's shoreline, as well as having other adverse impacts;

WHEREAS, with Lake Michigan's high water level, any storms and the resulting waves have a harsher impact on the shoreline, with the inevitable erosion getting progressively worse over time;

WHEREAS, while Lake Michigan's high water level is affecting many areas along Indiana's shoreline, the situation is particularly severe in the communities of Ogden Dunes, Beverly Shores, Long Beach, and Portage;


WHEREAS, as indicated in its letter dated January 15, 2020, the Indiana Department of Homeland Security ("DHS") was unaware of any loss of infrastructure in the shoreline areas (e.g., roads, bridges, public utilities, etc.) that would qualify for public assistance funding from federal or state disaster relief programs, but it has continued to monitor the situation for any changes;

WHEREAS, notwithstanding the foregoing, the State of Indiana, through DHS and the Indiana Department of Natural Resources ("DNR"), has taken certain actions in connection with this evolving situation, including, for example, the following:

- (1) State officials have visited affected areas on several occasions in order to observe, first-hand, how these areas have been impacted by the current high water level, and they also continue to actively monitor the situation;
- (2) DNR has expedited the authorization of emergency repair projects that have been requested by property owners for their projects along the shoreline, so that they may begin such work as quickly as possible;
- (3) DNR, DHS, local officials, and members of Indiana's Congressional delegation, in order to be fully prepared, have engaged with the Federal Emergency Management Agency ("FEMA") on The Robert T. Stafford Disaster Relief and Emergency Assistance Act (the "Stafford Act"), a federal law that provides an orderly and systemic means of federal natural disaster assistance for state and local governments;
- (4) DNR signed a letter of support for the Great Lakes Coastal Resiliency Study, which is a collaborative effort by the eight Great Lake states, FEMA, Army Corps of Engineers, National Oceanic and Atmospheric Administration, U.S. Geologic Survey, and the U.S. Environmental Protection Agency, to protect and improve the resiliency of the Great Lakes shoreline and to recommend measures designed to bolster the shoreline's ability to withstand, recover from, and adapt to future lake level conditions and increased storm severity; and

1

SF 18323 (DNR-09)

ATTEST: 
Linda Lawson
Secretary of State

necessary and appropriate under the circumstances, clearly described below;

tue of the authority vested in me as Governor of

p and launch a web page by and through which ing this matter, from State, Federal, and local th any and all interested parties;

ss of expediting the authorization of emergency rs for their projects along the shoreline, so that sible;

portunity, petition and apply to FEMA for any rm and long-term mitigation projects, including, n Grant Program, designed to prevent further to protect and reinforce existing infrastructure;

r shall not only coordinate local public safety ssary and appropriate under the circumstances, rriate Federal, State and local agencies, any


ery effort to identify additional means, methods, ate assistance to the affected areas;

riteria have been met that would enable the State a for federal disaster assistance, DHS shall so that an Executive Order Declaring a Disaster ndiana law, can be issued forthwith in order that g can be obtained as quickly as possible to help ater levels along Indiana's shoreline with Lake

es, and departments of state government shall of assistance in this matter;

ly impacted by the high water levels, such as h, and Portage, provide a short, concise written s, of: (a) resources or services that have already ion efforts; (b) resources or services that they er levels existing at this time; and (c) any other identified or believe are or could be available in

IN TESTIMONY WHEREOF, I, Eric J. Holcomb, have hereunto set my hand and caused to be affixed the Great Seal of the State of Indiana on this 19th day of February, 2020.


Eric J. Holcomb
Governor of Indiana

LMCP and Lake Michigan Shoreline

Shoreline Imagery

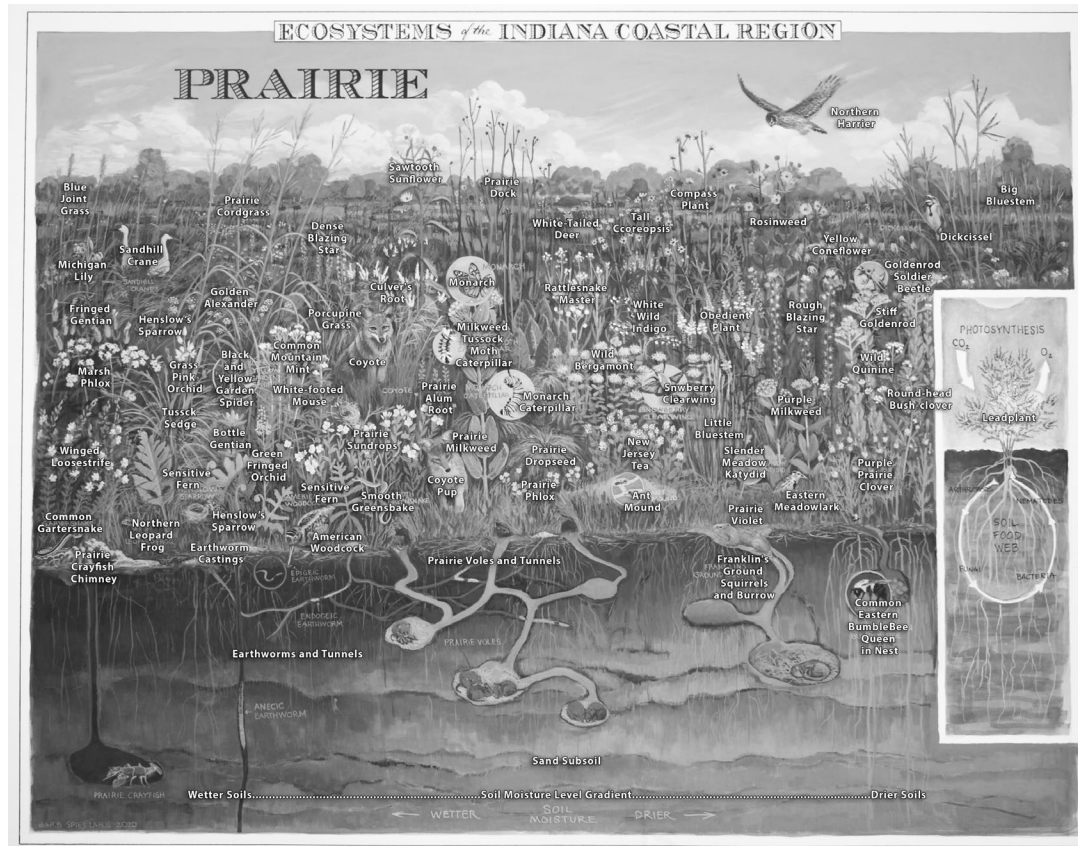


- 3in. pixel resolution 4-band digital ortho imagery
- Coordinate with DNR Division of Water and Indiana Geographic Information Office

Lake Michigan Shoreline Recreation (Public Trust)

https://www.in.gov/dnr/lakemich/files/lmcp-lake_michigan_public_trust.pdf

Ecosystem Poster Series



- Latest in the series of posters
- Will be available in 2021
- Next poster - Forests

NOAA Tools

- <https://coast.noaa.gov/digitalcoast/>
- <https://www.glerl.noaa.gov/res/glcfs/>
- <https://www.weather.gov/>

STAFF

- Jenny Orsburn
Program Manager
- Kacey Alexander
Operations Specialist
- Kathryn Vallis
Coastal Resources Planner
- Sheri Moor
Grant Specialist