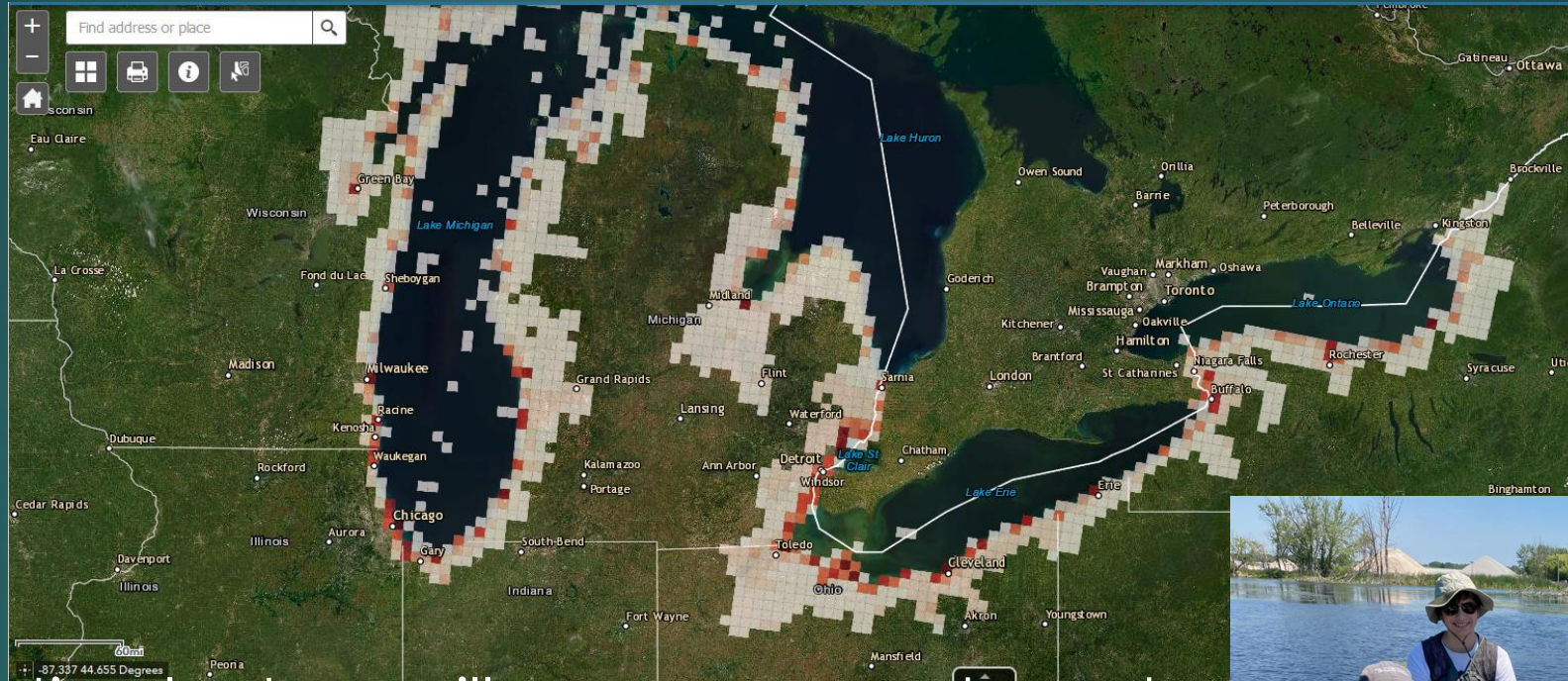


# EARLY DETECTION OF INVASIVE AQUATIC PLANTS IN COASTAL WATERS OF THE GREAT



Regional aquatic plant surveillance program based on

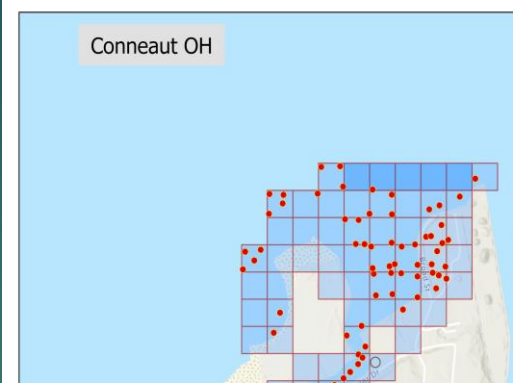
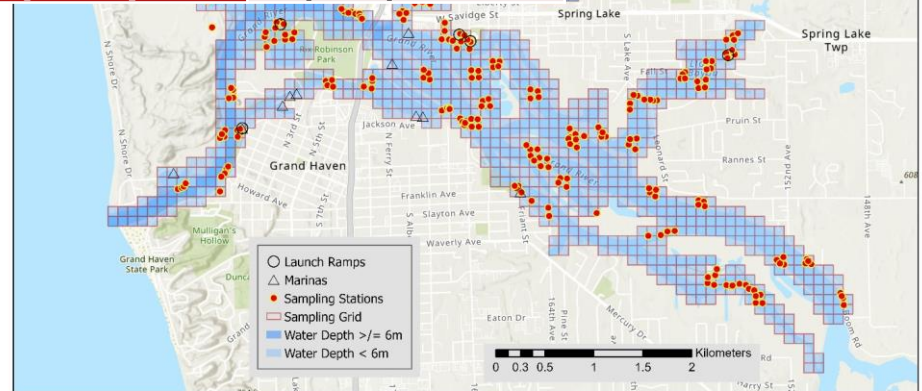
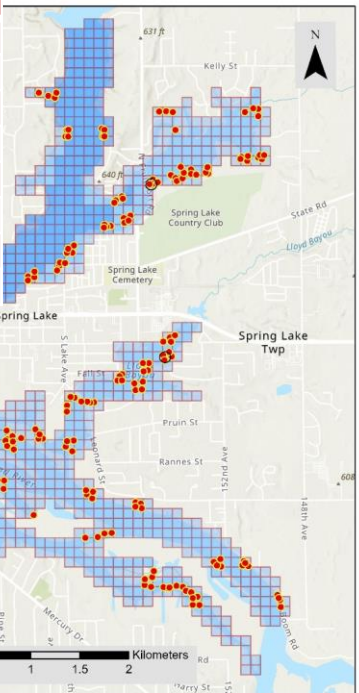
- the TNC sampling protocol and
- the species watch list and site priorities identified by the Interstate Team in previously funded projects.



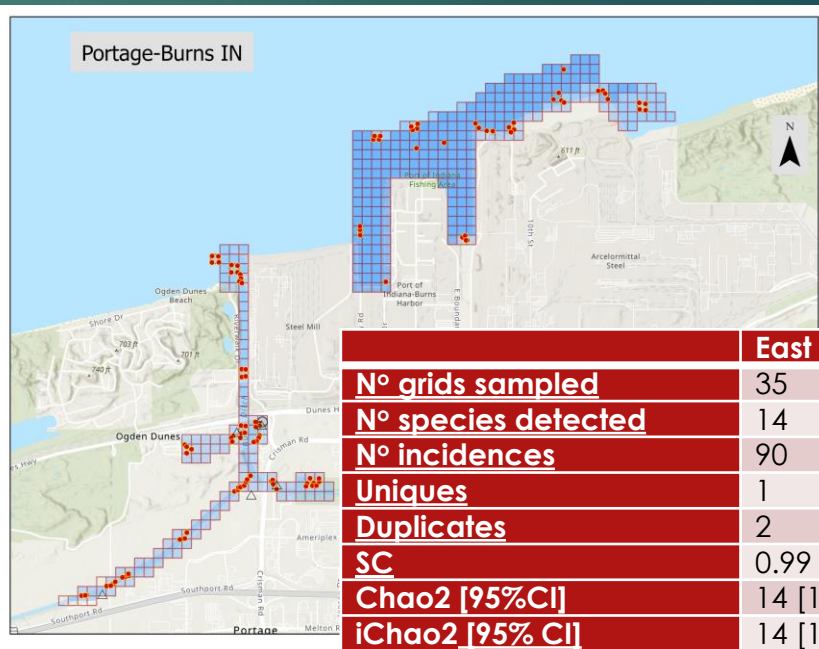
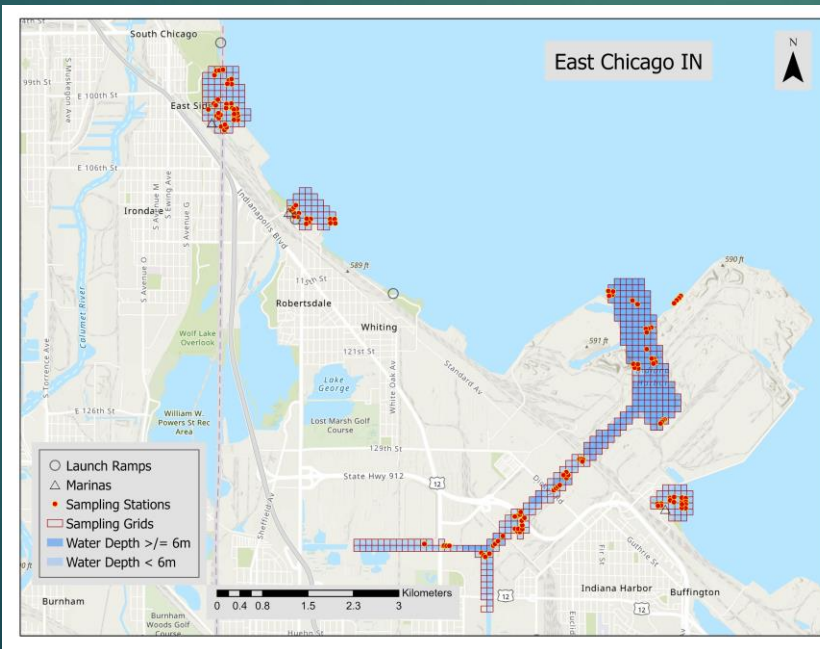
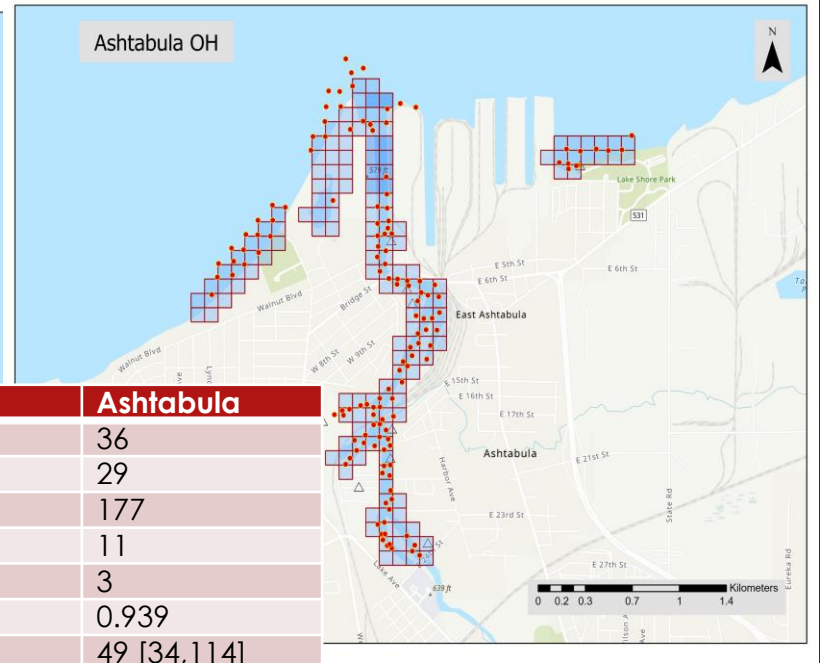
# Completeness statistics-2022 surveys



| Grand Haven         |            |
|---------------------|------------|
| N° grids sampled    | 82         |
| N° species detected | 30         |
| N° incidences       | 492        |
| Uniques             | 3          |
| Duplicates          | 5          |
| SC                  | 0.9941     |
| Chao2 [95%CI]       | 31 [30,38] |
| iChao2 [95% CI]     | 31 [30,34] |



|                     | Conneaut   | Ashtabula   |
|---------------------|------------|-------------|
| N° grids sampled    | 20         | 36          |
| N° species detected | 15         | 29          |
| N° incidences       | 88         | 177         |
| Uniques             | 1          | 11          |
| Duplicates          | 0          | 3           |
| SC                  | 0.989      | 0.939       |
| Chao2 [95%CI]       | 15 [15,17] | 49 [34,114] |
| iChao2 [95% CI]     | 15*        | 51 [36,97]  |



|                     | East Chicago | Portage Burns |
|---------------------|--------------|---------------|
| N° grids sampled    | 35           | 32            |
| N° species detected | 14           | 13            |
| N° incidences       | 90           | 56            |
| Uniques             | 1            | 3             |
| Duplicates          | 2            | 0             |
| SC                  | 0.99         | 0.948         |
| Chao2 [95%CI]       | 14 [14,17]   | 16 [13,38]    |
| iChao2 [95% CI]     | 14 [14,17]   | 18 [14,41]    |

# 2023 Sites-Early Data

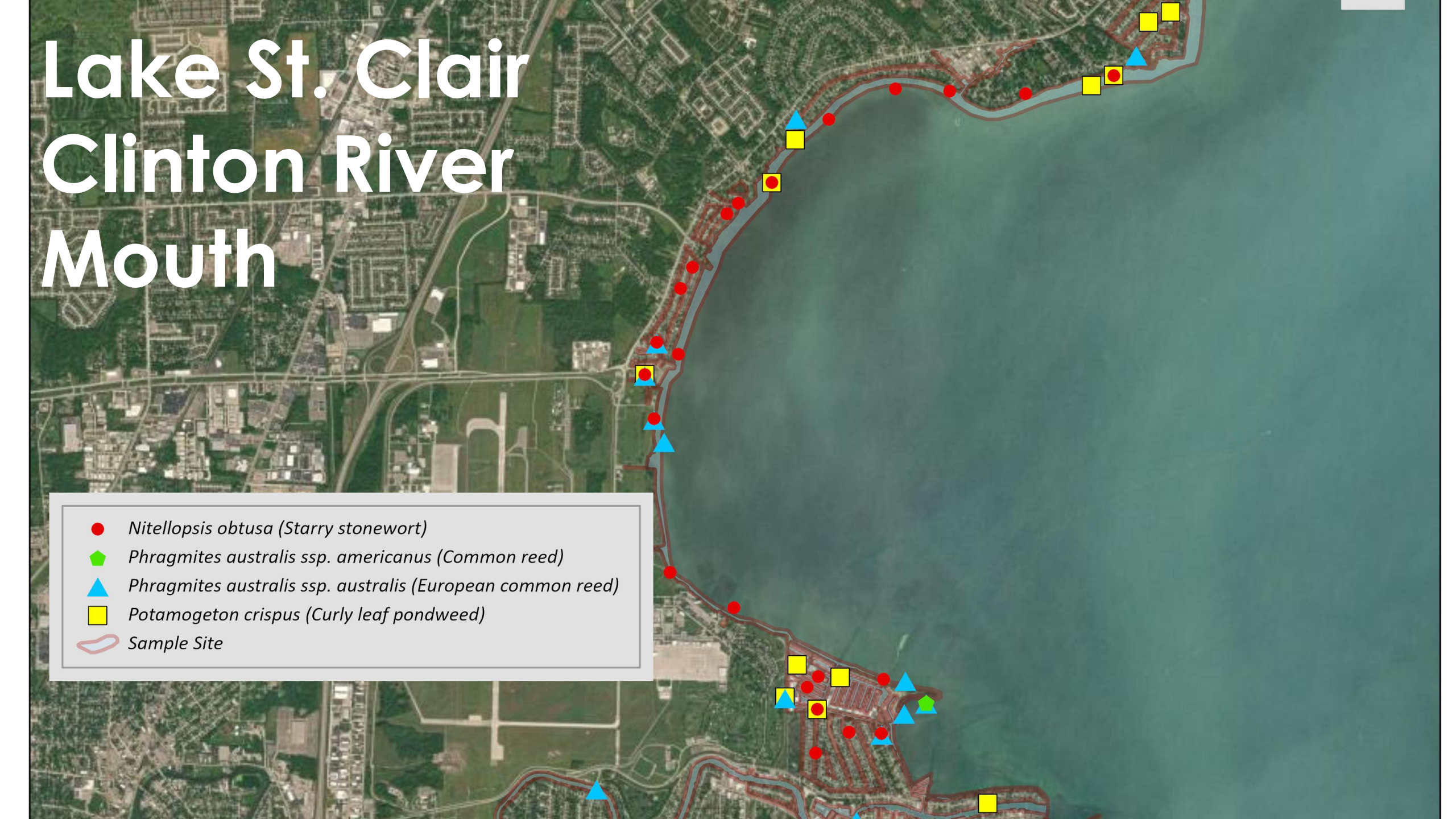


# Green Bay Tributaries

- 
-  *Phragmites australis ssp. australis* (European common reed)
  -  *Najas minor* (Brittle naiad)
  -  *Myriophyllum spicatum* (Eurasian watermilfoil)
  -  *Potamogeton crispus* (Curly leaf pondweed)
  -  Sample Site



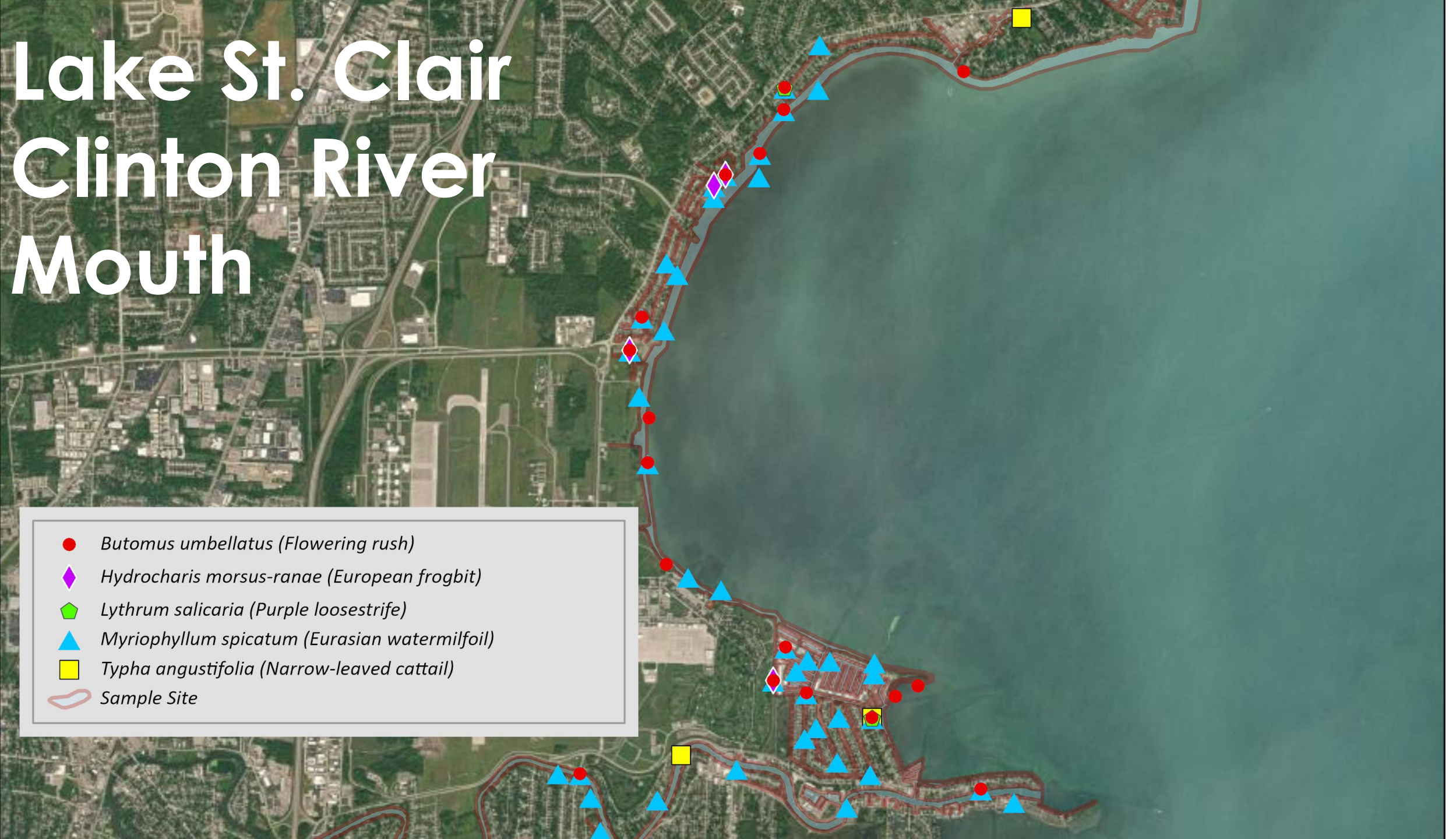
# Lake St. Clair Clinton River Mouth

- 
- The map displays the Clinton River flowing into Lake St. Clair. A red outline traces the river and its tributaries, marking various sampling sites. Colored symbols are placed along these sites to indicate the presence of specific plant species. Red circles are scattered throughout the river and lake. Blue triangles are located at several points along the river. Yellow squares are found in clusters near the river's mouth and in the upper right portion of the lake. A single green pentagon is located near the bottom right of the lake. The background is an aerial photograph showing urban areas, roads, and green spaces.
- *Nitellopsis obtusa* (Starry stonewort)
  - ◆ *Phragmites australis* ssp. *americanus* (Common reed)
  - ▲ *Phragmites australis* ssp. *australis* (European common reed)
  - *Potamogeton crispus* (Curly leaf pondweed)
  - Sample Site



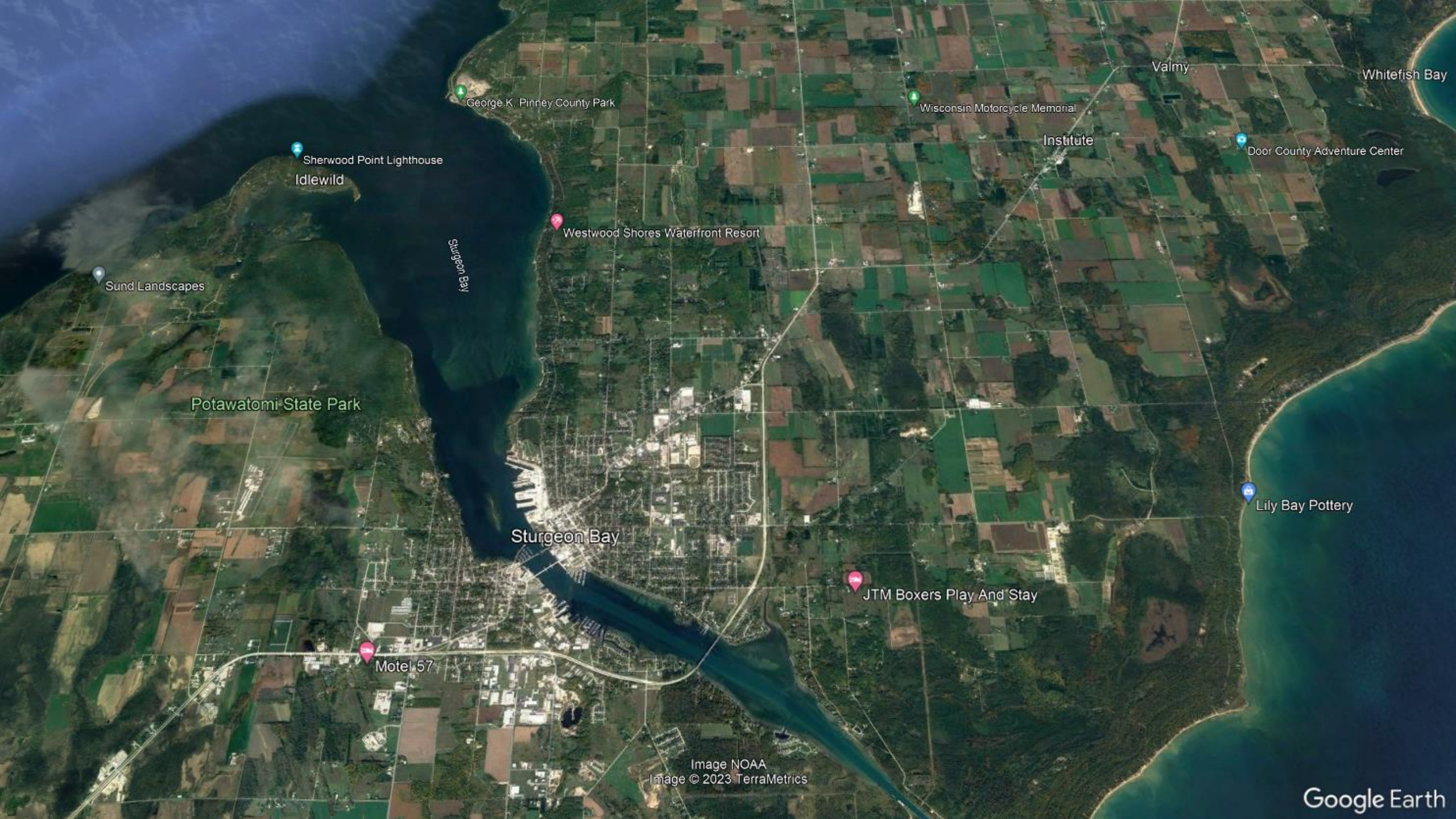
# Lake St. Clair Clinton River Mouth

- *Butomus umbellatus* (Flowering rush)
- ◆ *Hydrocharis morsus-ranae* (European frogbit)
- ◆ *Lythrum salicaria* (Purple loosestrife)
- ▲ *Myriophyllum spicatum* (Eurasian watermilfoil)
- *Typha angustifolia* (Narrow-leaved cattail)
- Sample Site



# 2024 Sites





Valmy

Whitefish Bay

George K. Pinney County Park

Wisconsin Motorcycle Memorial

Institute

Door County Adventure Center

Sherwood Point Lighthouse  
Idlewild

Westwood Shores Waterfront Resort

Sund Landscapes

Potawatomi State Park

Sturgeon Bay

Sturgeon Bay

Lily Bay Pottery

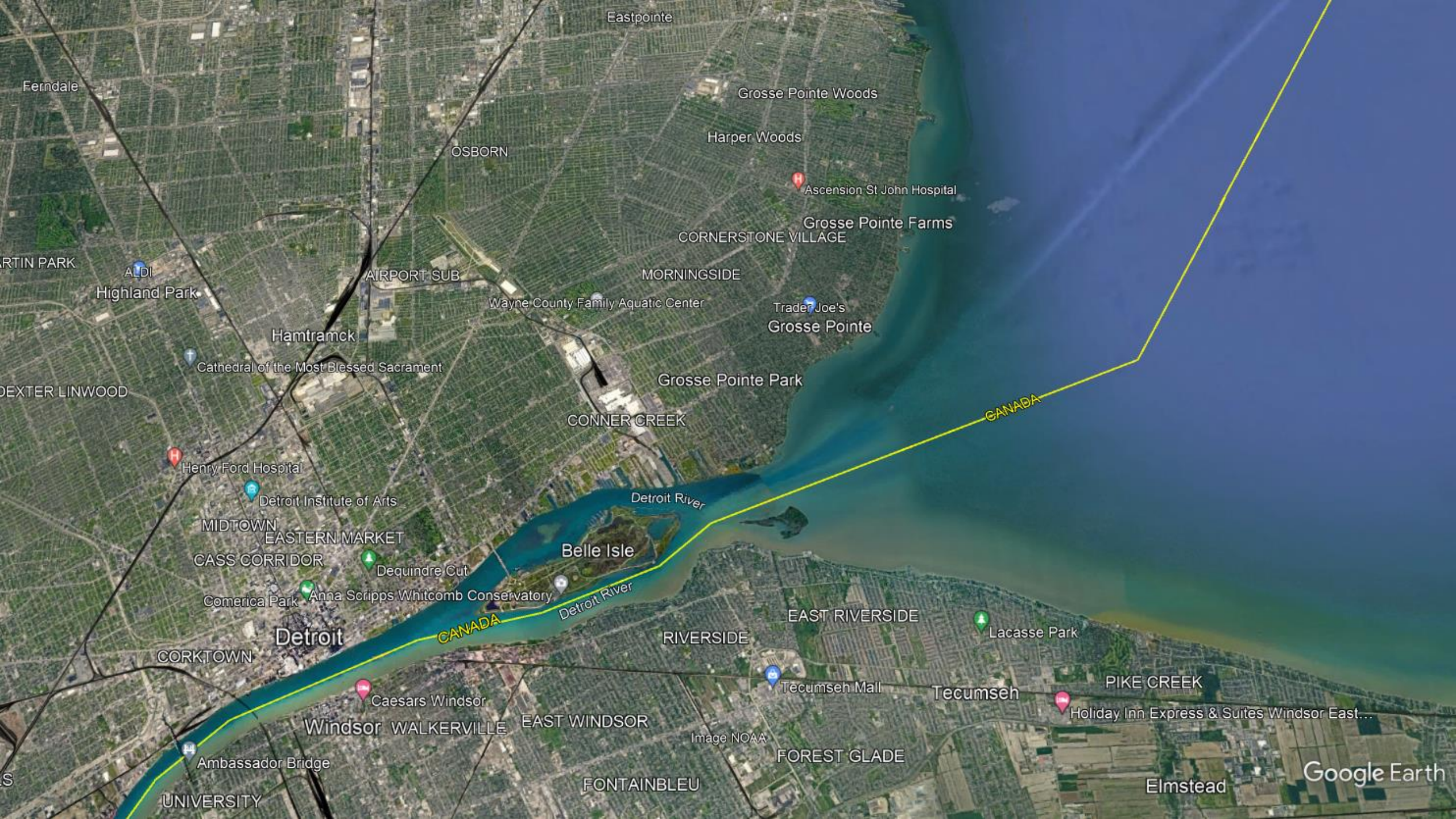
JTM Boxers Play And Stay

Motel 57

Image NOAA  
Image © 2023 TerraMetrics

Google Earth





Ferndale

Eastpointe

Grosse Pointe Woods

Harper Woods

OSBORN

Ascension St John Hospital

Grosse Pointe Farms

CORNERSTONE VILLAGE

MORNINGSIDE

Highland Park

AIRPORT SUB

Wayne County Family Aquatic Center

Trader Joe's

Grosse Pointe

Hamtramck

Cathedral of the Most Blessed Sacrament

Grosse Pointe Park

CONNER CREEK

CANADA

Henry Ford Hospital

Detroit Institute of Arts

Detroit River

MIDTOWN

EASTERN MARKET

Belle Isle

CASS CORRIDOR

Dequindre Cut

Comerica Park

Anna Scripps Whitcomb Conservatory

Detroit River

CANADA

Detroit

RIVERSIDE

EAST RIVERSIDE

Lacasse Park

CORKTOWN

Caesars Windsor

Tecumseh Mall

Tecumseh

PIKE CREEK

Windsor WALKERVILLE

EAST WINDSOR

Image NOAA

FOREST GLADE

Holiday Inn Express & Suites Windsor East...

Ambassador Bridge

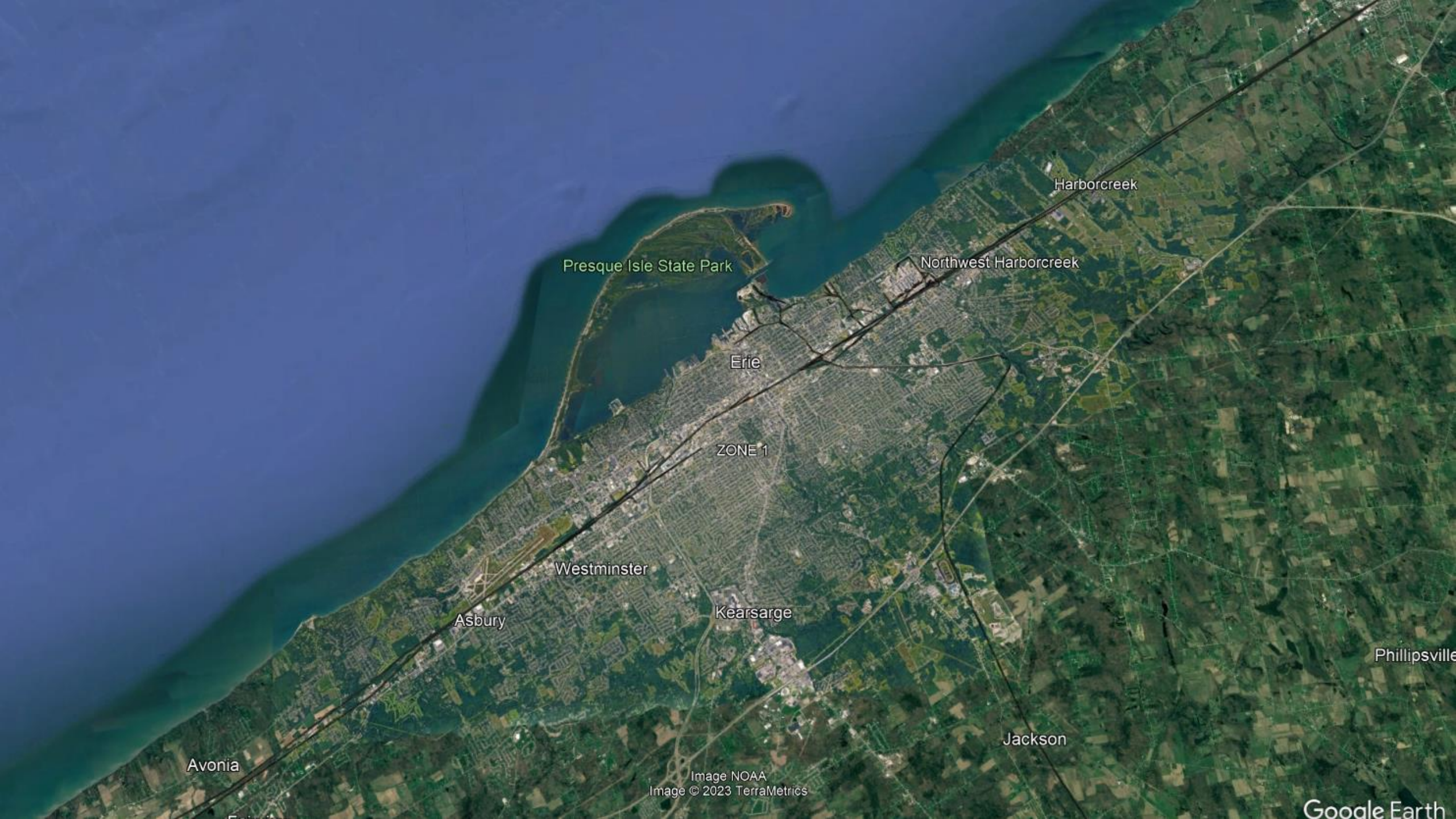
UNIVERSITY

FONTAINBLEU

Elmstead

Google Earth





Presque Isle State Park

Harborcreek

Northwest Harborcreek

Erie

ZONE 1

Westminister

Kearsarge

Asbury

Avonia

Jackson

Phillipsville

Image NOAA  
Image © 2023 TerraMetrics

Google Earth