

# INDIANA'S ASIAN CARP RESPONSE



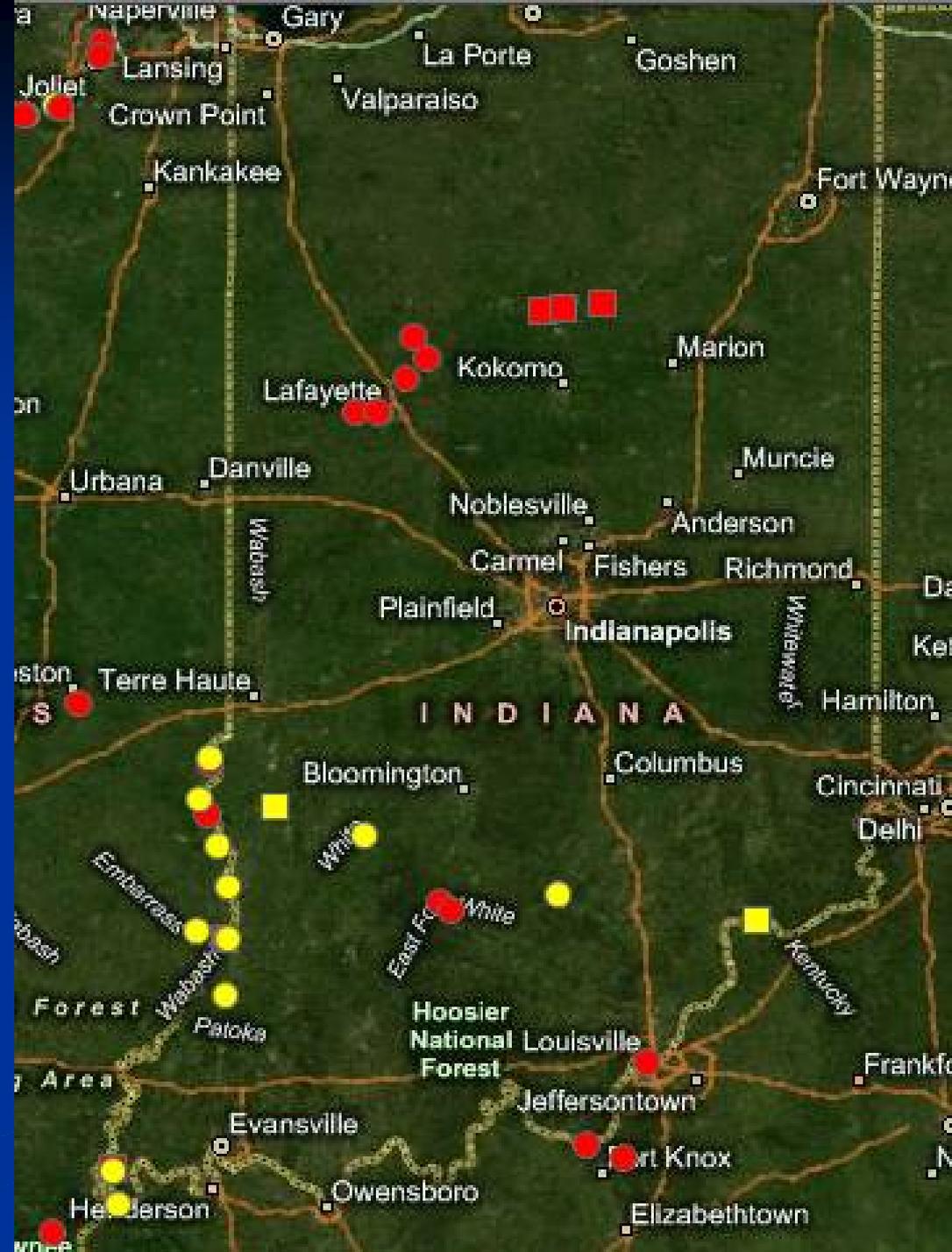
Mark Reiter, Director

Division of Fish and Wildlife

# Bighead carp distribution



# Silver carp distribution



# ONCE A NOVELTY...



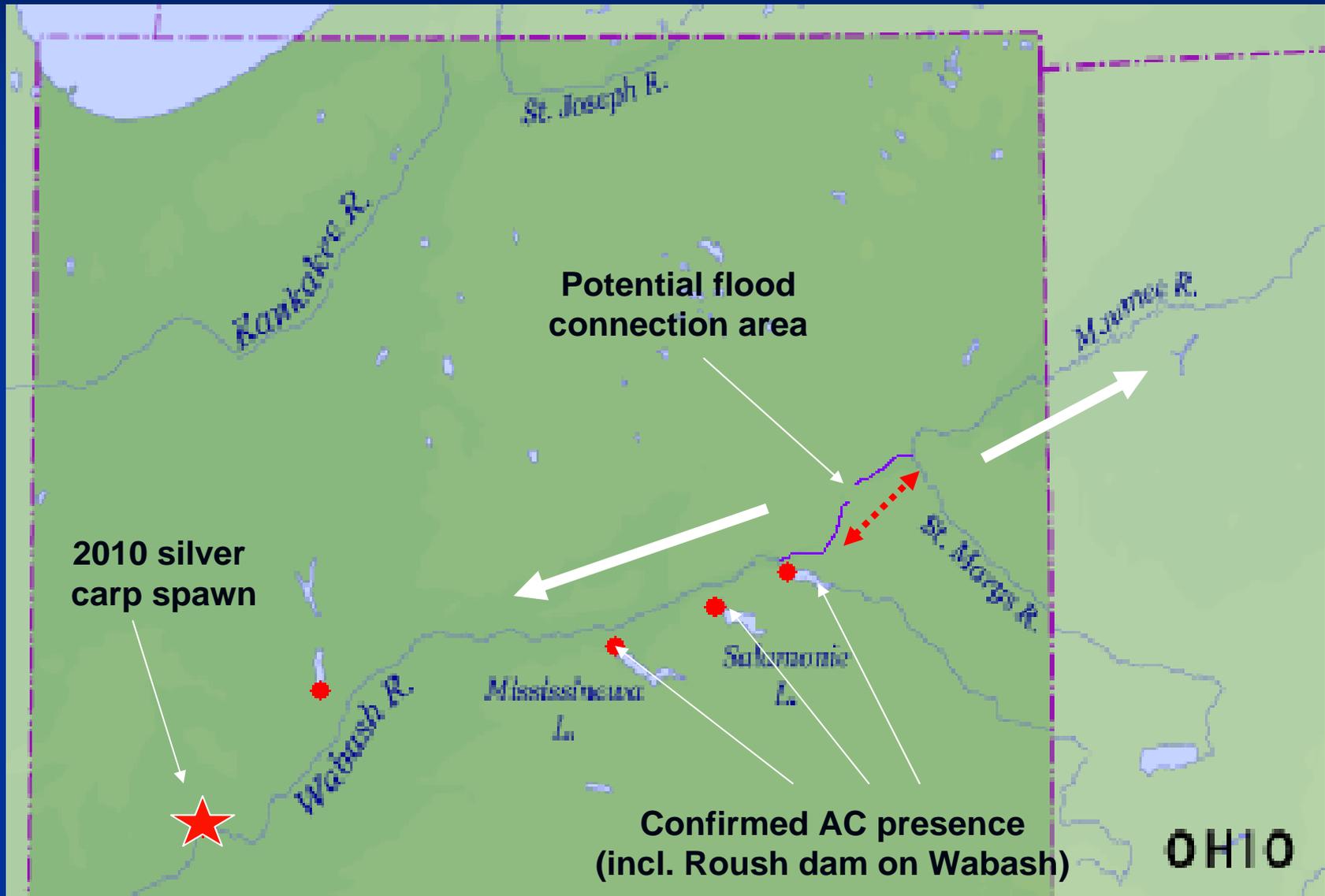
# ...AND NOW A NUISANCE



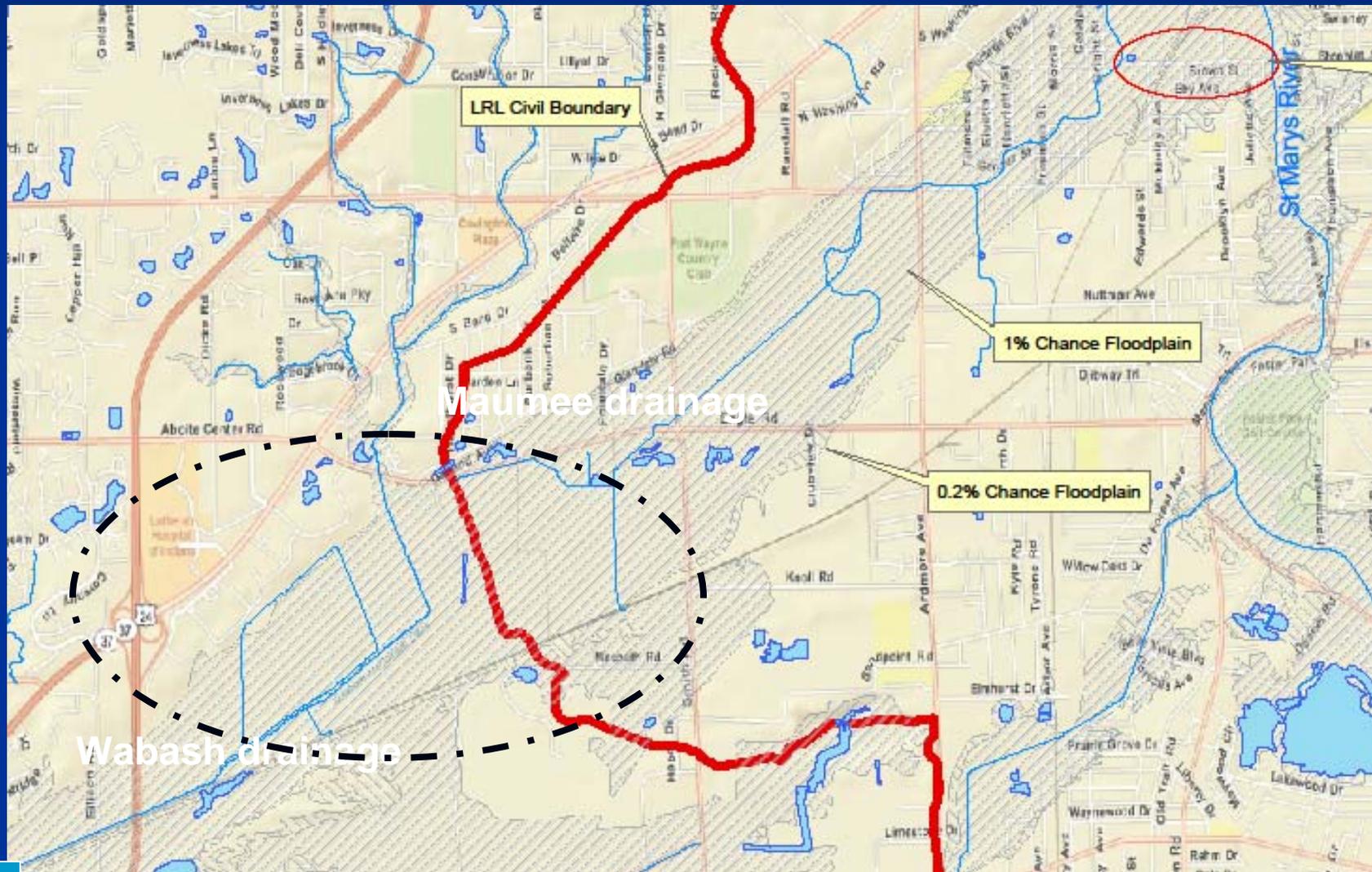
# INDIANA'S HIGH RISK WATERSHED CONNECTIONS

- NORTHWEST INDIANA
  - GRAND CALUMET RIVER
  - LITTLE CALUMET RIVER
  - BOTH CONNECT TO CHICAGO AREA WATERWAYS AND OUTLET INTO LAKE MICHIGAN
- ACOE IDENTIFIED 6 OTHER POTENTIAL CONNECTIONS
  - FT WAYNE CONNECTION VERY FAVORABLE (ACTION REQUIRED)
  - 2 CONNECTIONS HAVE SMALL POTENTIAL (STUDY FURTHER)
  - 3 UNLIKELY (NO ACTION)

# CRITICAL CONNECTION



# WABASH-MAUMEE BOUNDARY (red) wide 100 yr natural flood plain connecting basins



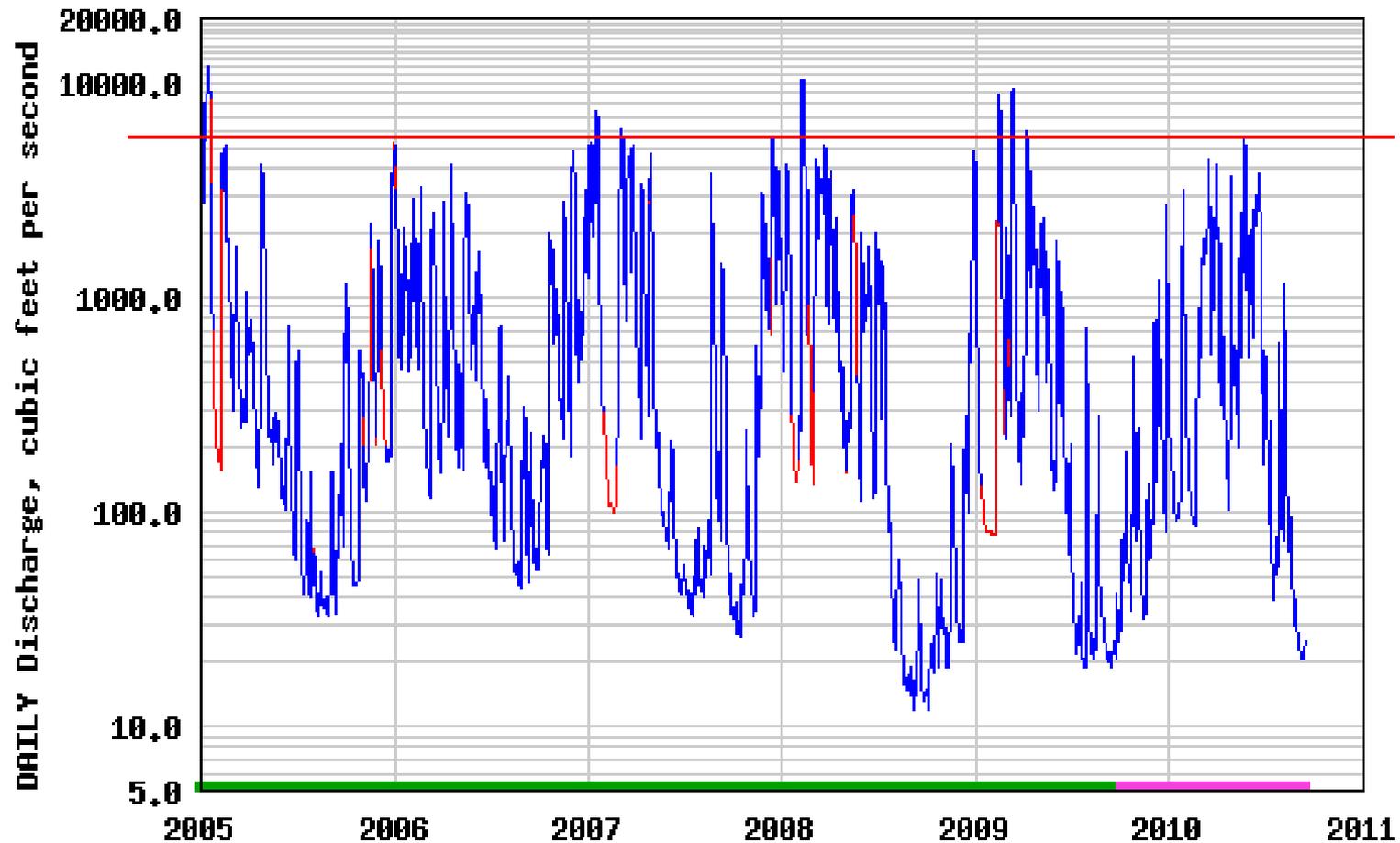
# FLOOD THREAT OVER DIVIDE

- DOES IT FLOOD AND HOW FREQUENTLY???

# FLOOD THREAT OVER DIVIDE

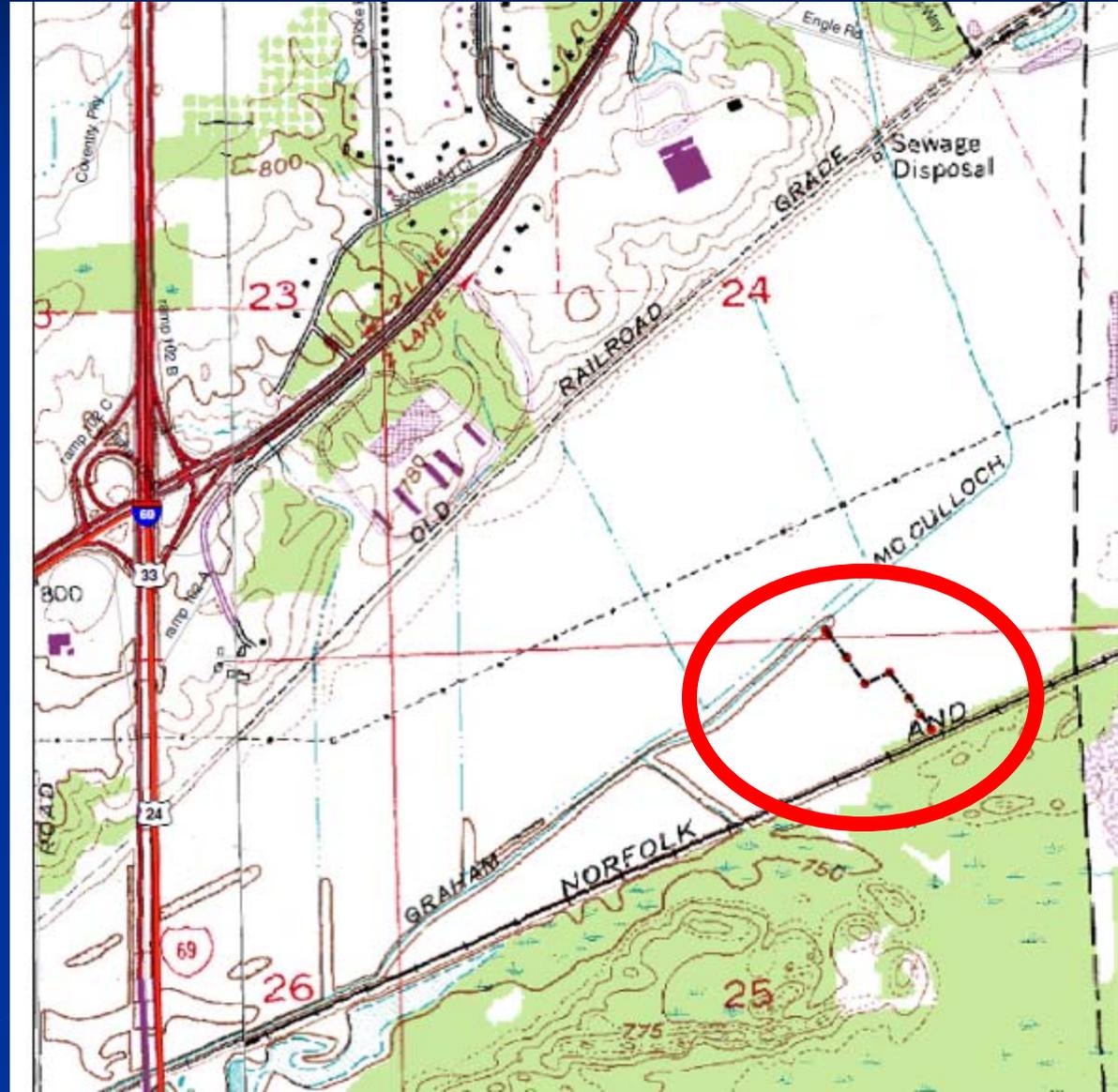


USGS 04182000 ST. MARYS RIVER NEAR FORT WAYNE, IN



# TEMPORARY SOLUTION

- Approximately 1,200' long chain link fence across Eagle Marsh



# TEMPORARY SOLUTION

- 8' high fence (2' or greater above BFE)
- 2' underground
- Expect only adults in this area so using 2" openings (standard chain link)
- Egg survival unlikely in this area
- Critical “relief valve” to reduce flooding in Ft. Wayne – can't allow complete blockage
- ACOE exploring permanent solution

# Asian Carp De-“FENCE”



# STUDIES PLANNED

- eDNA (upper Wabash and Maumee) – Notre Dame



- How far up are AC in the Wabash watershed?
- Could there be fish present on the Great Lakes side of the boundary?
- 240 samples collected in October with results likely in December

# STUDIES PLANNED

- TELEMETRY (upper Wabash) - Purdue
  - Where are fish concentrating?
  - Where are they migrating to for spawning?
  - Do AC show any interest in running up Little River?
  - Are they “testing” the fence?

# STUDIES PLANNED

- SPAWNING EVALUATION (upper Wabash and upper EF White)
  - Where does spawning occur?
  - What are the conditions that trigger spawning (temperature, flow rate, river stage, etc)?
  - Where do juveniles go to for development?
- These rivers are much smaller than other Great Rivers where AC have been looked at. This information may help predict possible spawning locations in the Great Lakes watershed.

# QUESTIONS???

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