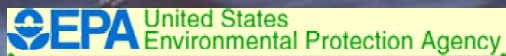


# Calcasieu Estuary Environmental Investigation

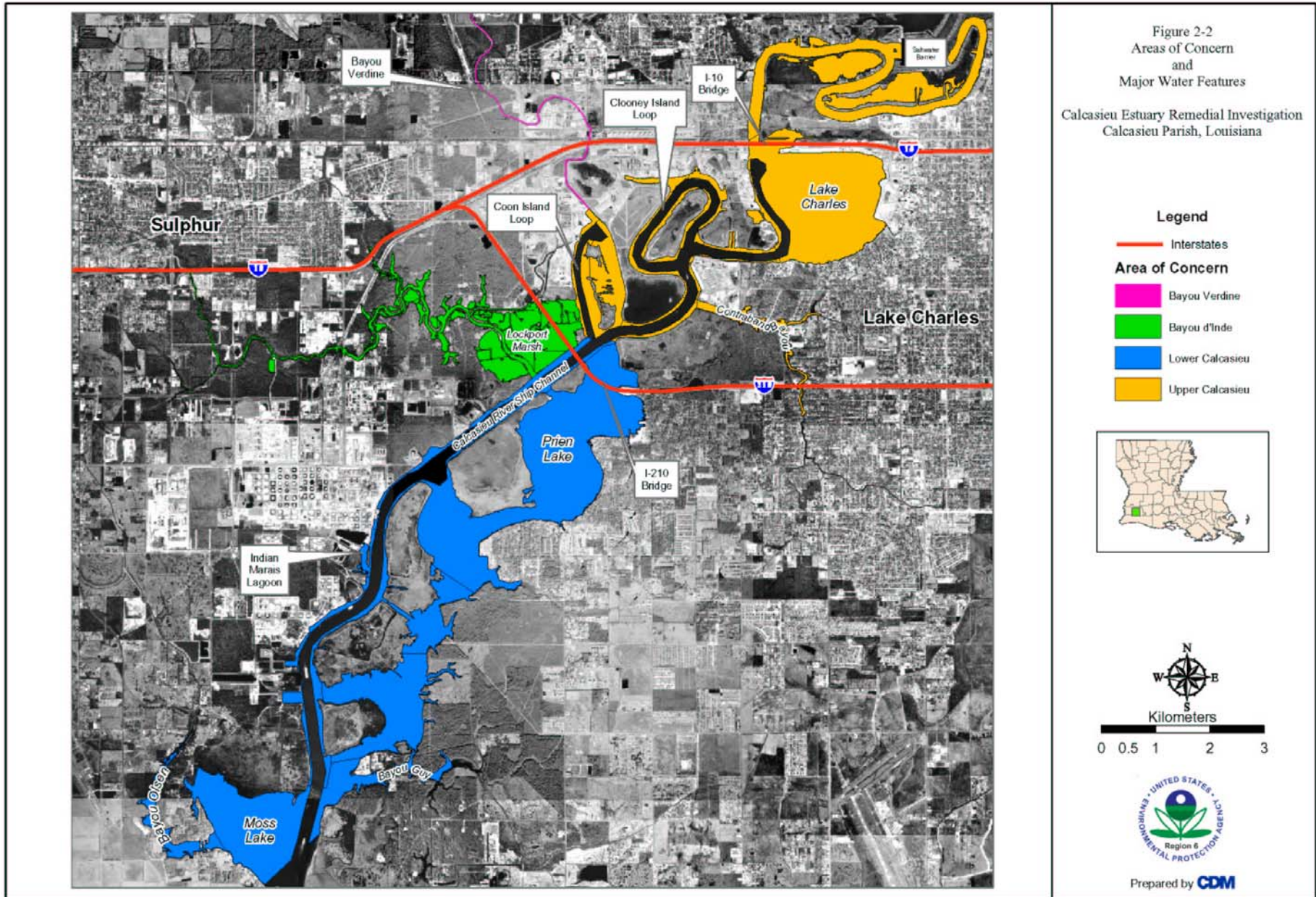


# Calcasieu Estuary Remedial Investigation

## Objective of the Investigation

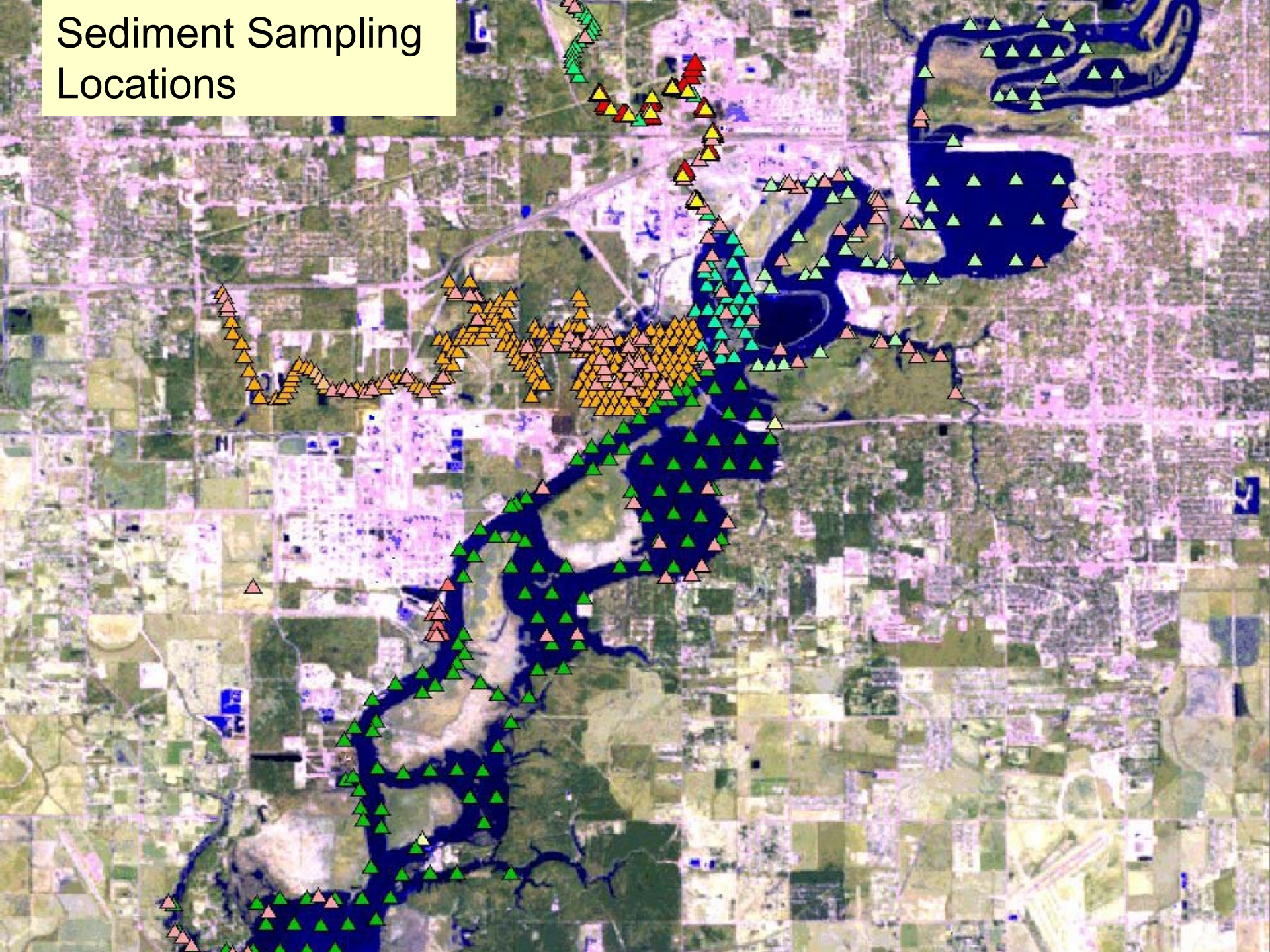
- Define the nature and extent of chemical contamination in sediment, surface water and biota.
- Estimate the risk to ecological and human receptors







# Sediment Sampling Locations





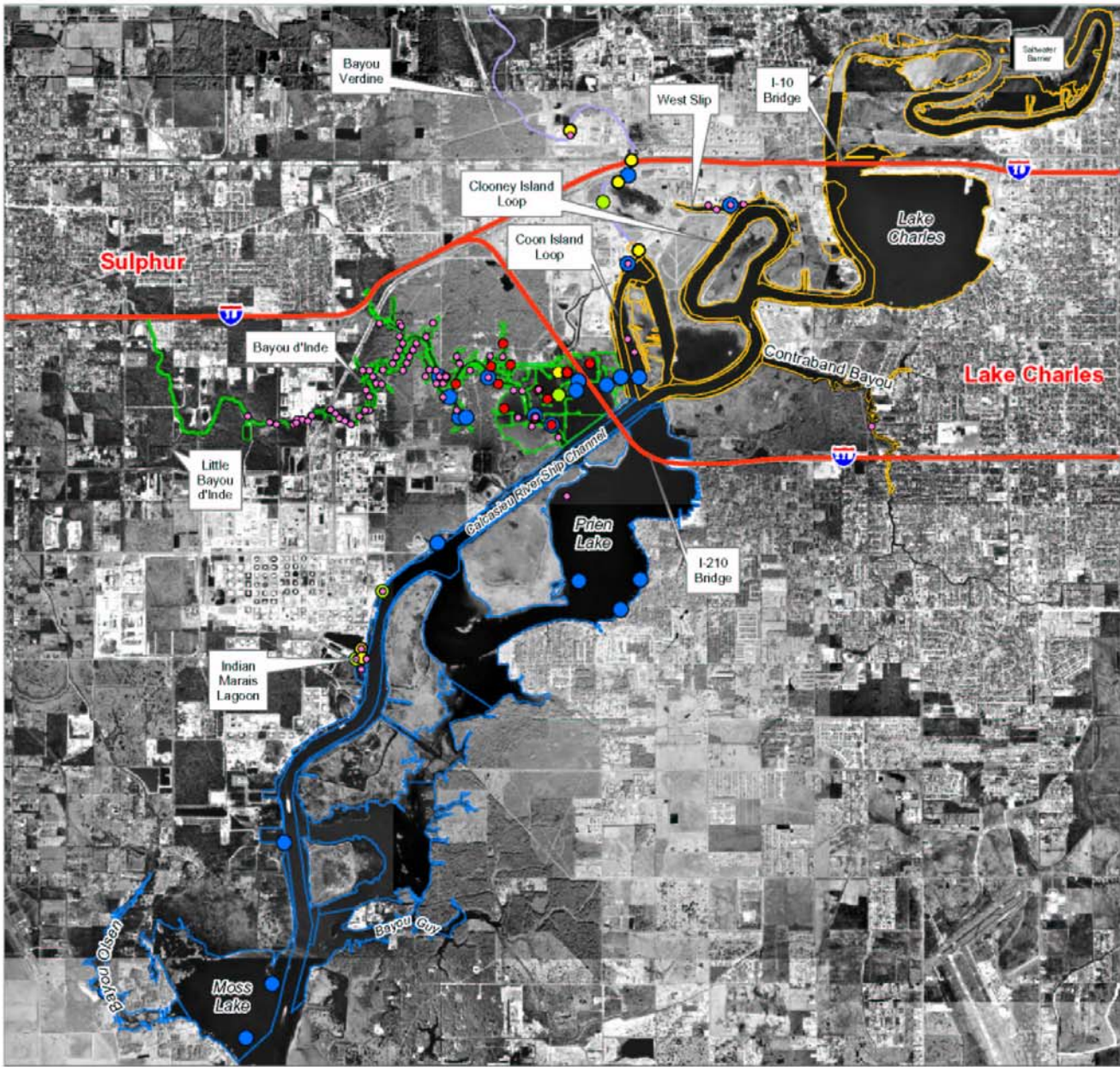


Figure 15-1  
 Estuary-Wide Organic Compound  
 Detections That Exceed 95% UCL  
 Mean Concentration

Calcasieu Estuary Remedial Investigation  
 Calcasieu Parish, Louisiana

**Legend**

- Interstates
- Bayou Verdine AOC Boundary
- Bayou d'Inde AOC Boundary
- Lower Calcasieu AOC Boundary
- Upper Calcasieu AOC Boundary
- Aroclor 1254
- 2,3,7,8-TCDD TEQ
- LPAH
- HPAH
- Bis(2-ethylhexyl)phthalate

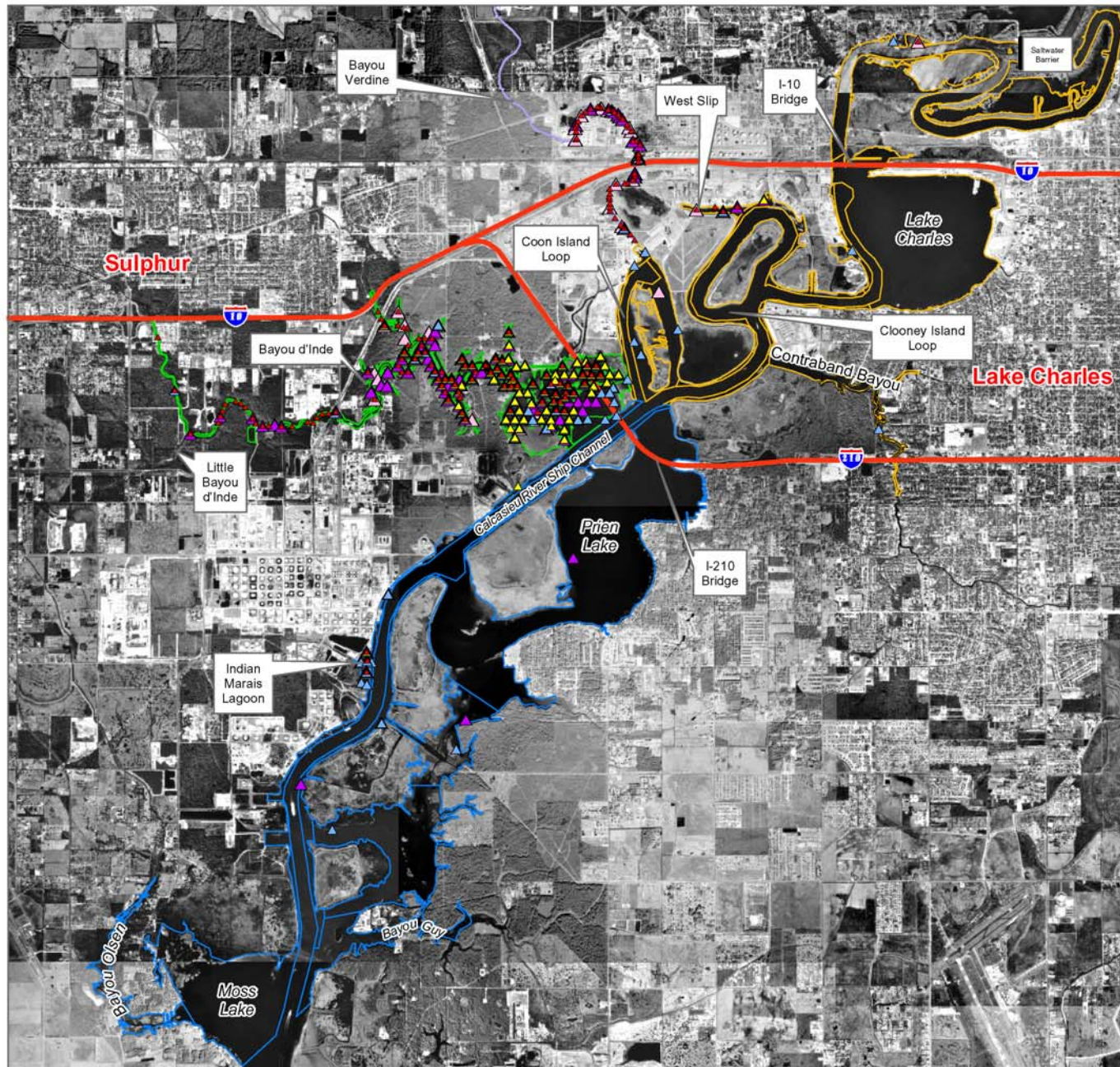


Prepared by **CDM**



Figure 15-2  
 Estuary-Wide Inorganic Compound  
 Detections That Exceed 95% UCL  
 Mean Concentration

Calcasieu Estuary Remedial Investigation  
 Calcasieu Parish, Louisiana



**Legend**

- Interstates
- Bayou Verdine AOC Boundary
- Bayou d'Inde AOC Boundary
- Lower Calcasieu AOC Boundary
- Upper Calcasieu AOC Boundary
- ▲ Zinc
- ▲ Mercury
- ▲ Lead
- ▲ Copper
- ▲ Chromium



Kilometers

0 0.5 1 2 3



Prepared by **CDM**



Figure 10-10. Map of the Upper Calcasieu River AOC, showing the reach boundaries and locations that pose low, indeterminate or high risk to aquatic receptors (i.e., microbial, aquatic plant, benthic invertebrate, and fish communities) considering multiple lines of evidence.

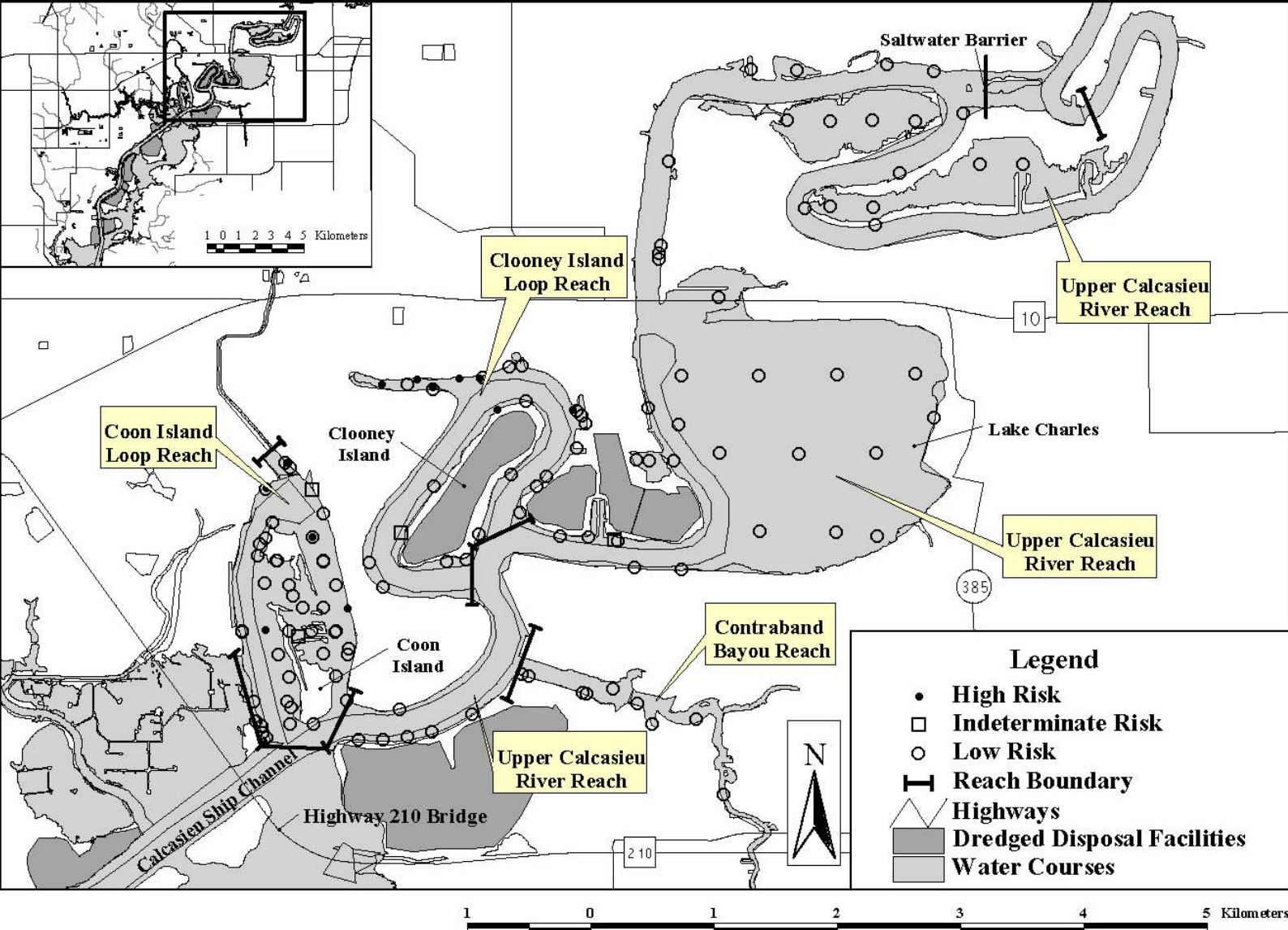
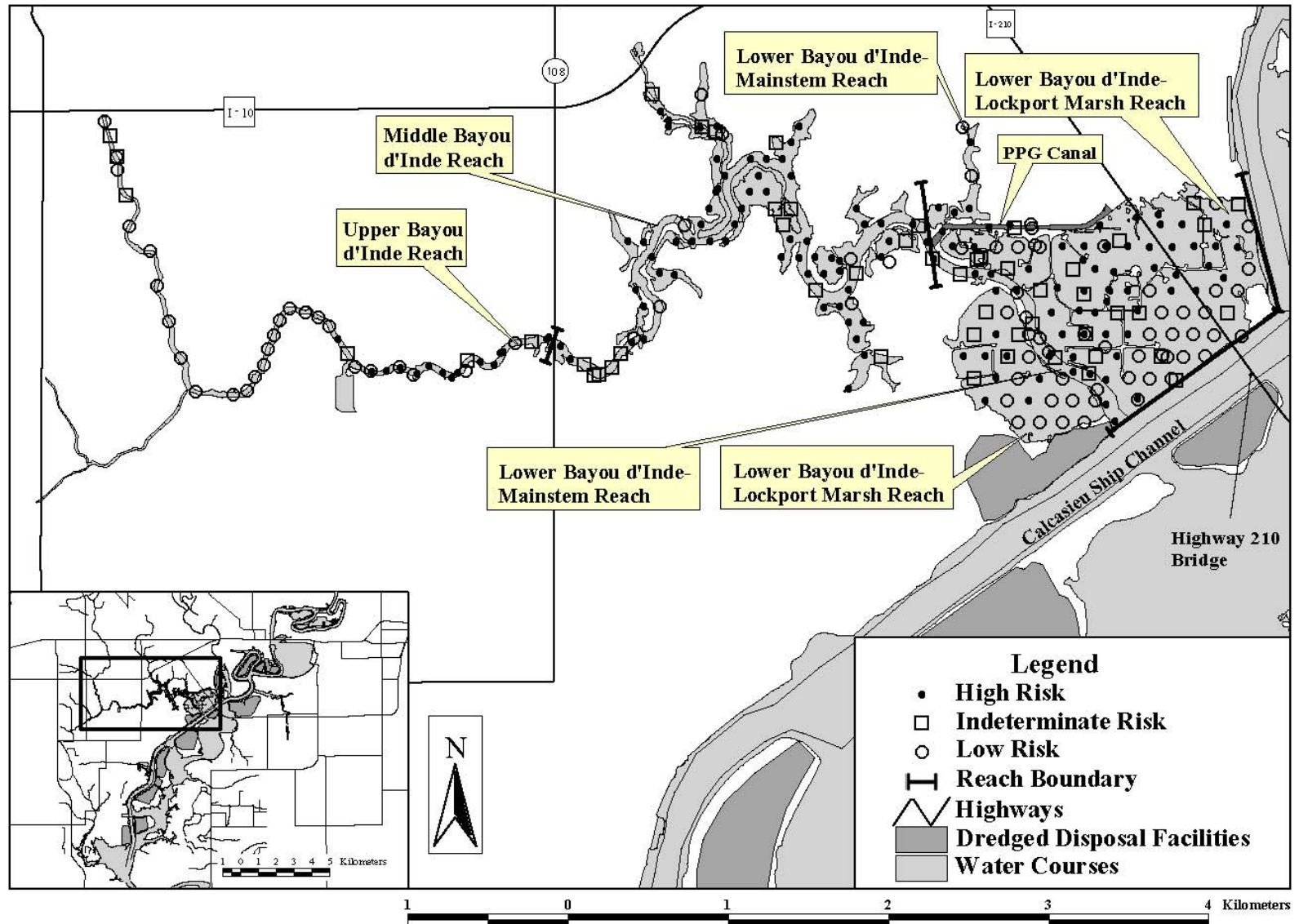


Figure 10-11. Map of the Bayou d'Inde AOC, showing the reach boundaries and locations that pose low, indeterminate or high risk to aquatic receptors (i.e., microbial, aquatic plant, benthic invertebrate, and fish communities) considering multiple lines of evidence.





Areas requiring further action

Lower Bayou Verdine

Clooney Island Loop

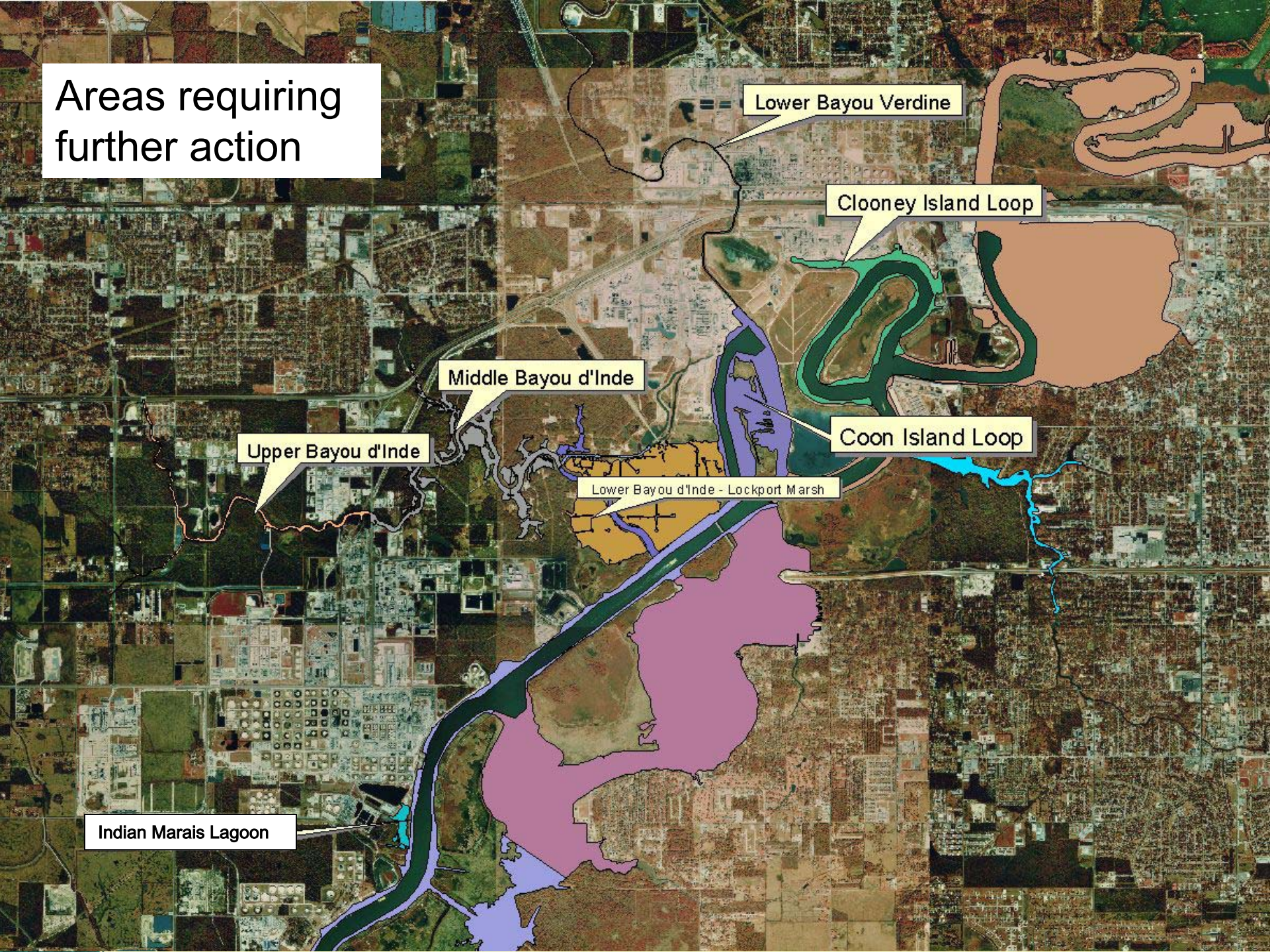
Middle Bayou d'Inde

Coon Island Loop

Upper Bayou d'Inde

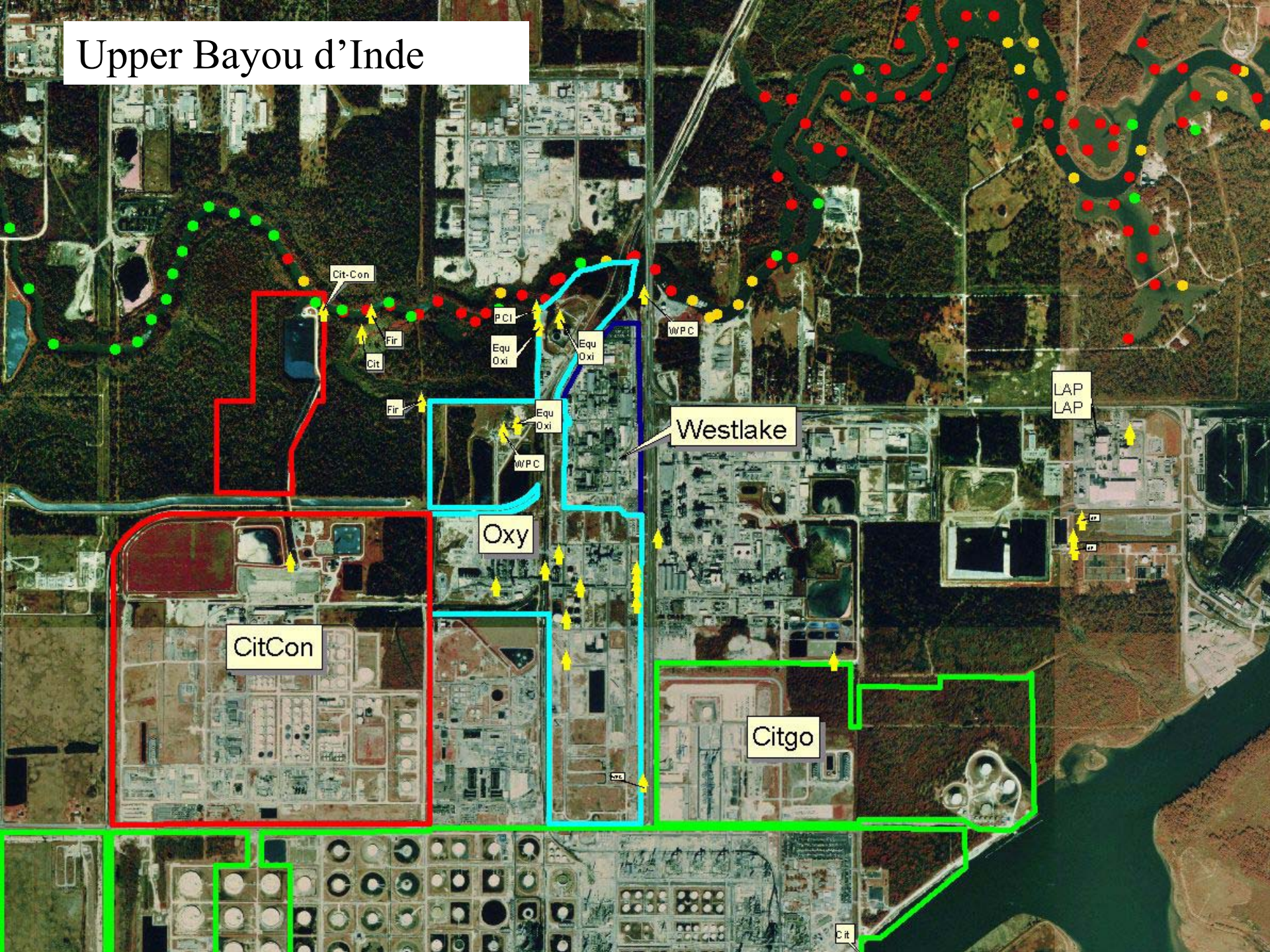
Lower Bayou d'Inde - Lockport Marsh

Indian Marais Lagoon



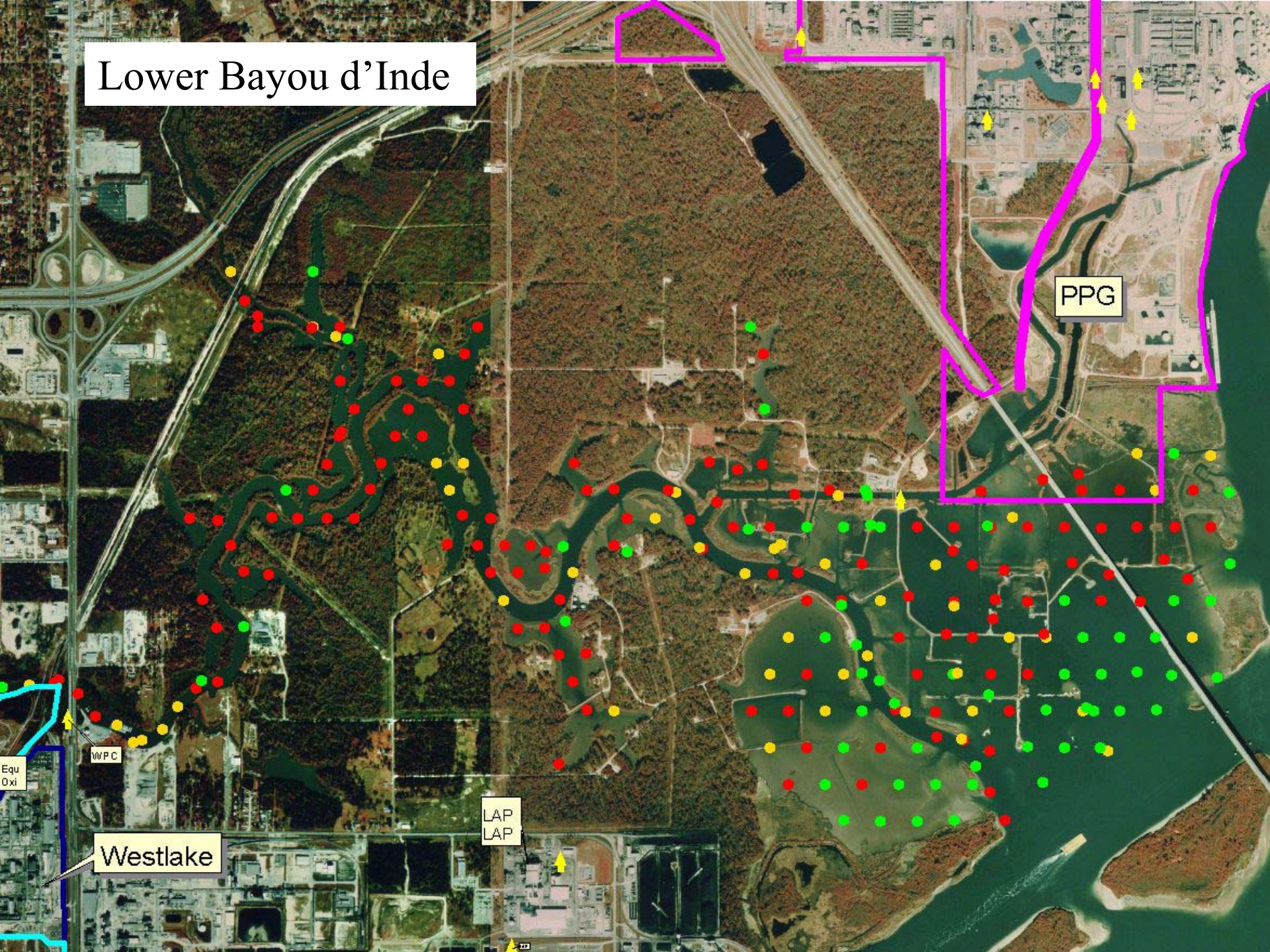


# Upper Bayou d'Inde





# Lower Bayou d'Inde



PPG

WPC

Equ  
Oxi

Westlake

LAP  
LAP



# Clooney Island Loop



Lyondell

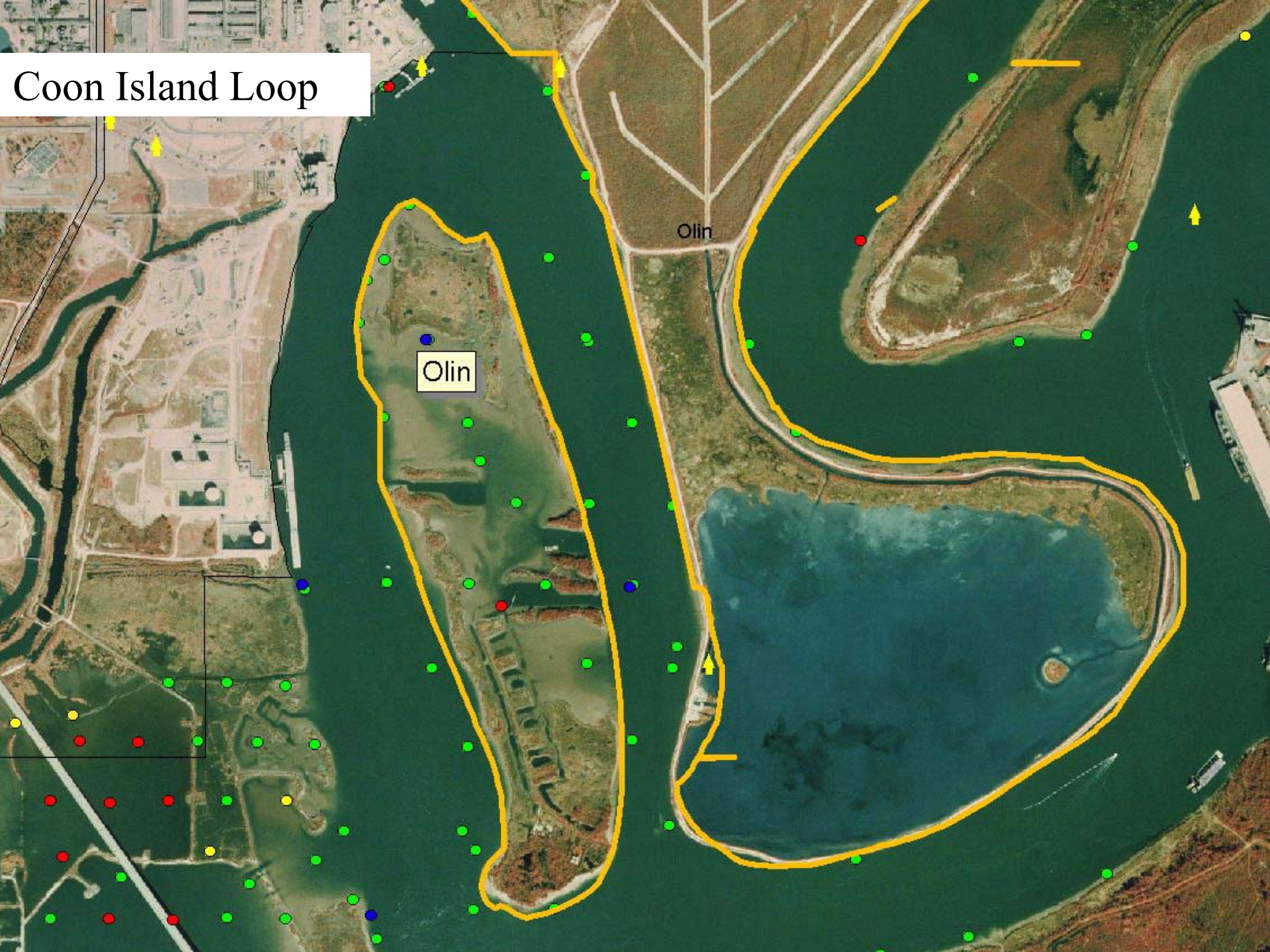
Lyo  
Oli

Olin

Olin

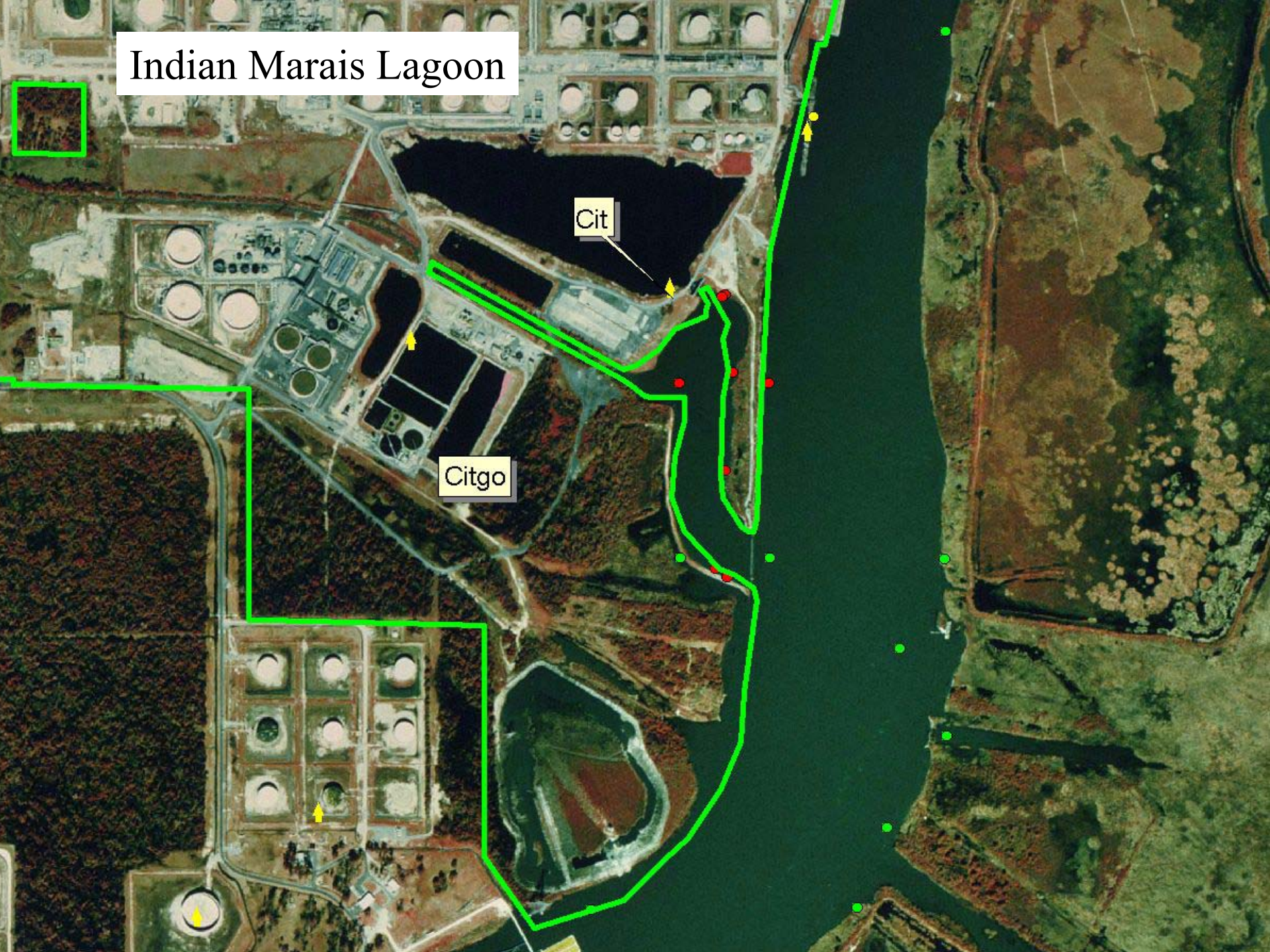


# Coon Island Loop





# Indian Marais Lagoon



Cit

Citgo





# Next Steps

- Develop remedial action objectives and preliminary remediation goals to address the risks.
- Evaluate risk management alternatives for each area.



# Report Availability

- A complete copy is available at McNeese Library
- Available on EPA website  
[www.epa.gov/region6/calcasieu](http://www.epa.gov/region6/calcasieu)