

# Hudson River PCBs Superfund Site

**Community Advisory Group Meeting**

**January 24, 2008**

# Unexploded Ordnance (UXO) Site Discovery at Processing Facility





# Unexploded Ordnance (UXO)

- Dynamite first discovered on August 24, 2007
- Almost all of the dynamite was in wooden cases
- Overall approximately 59 cases (total of about 4,700 sticks)
- Dynamite was generally in good condition

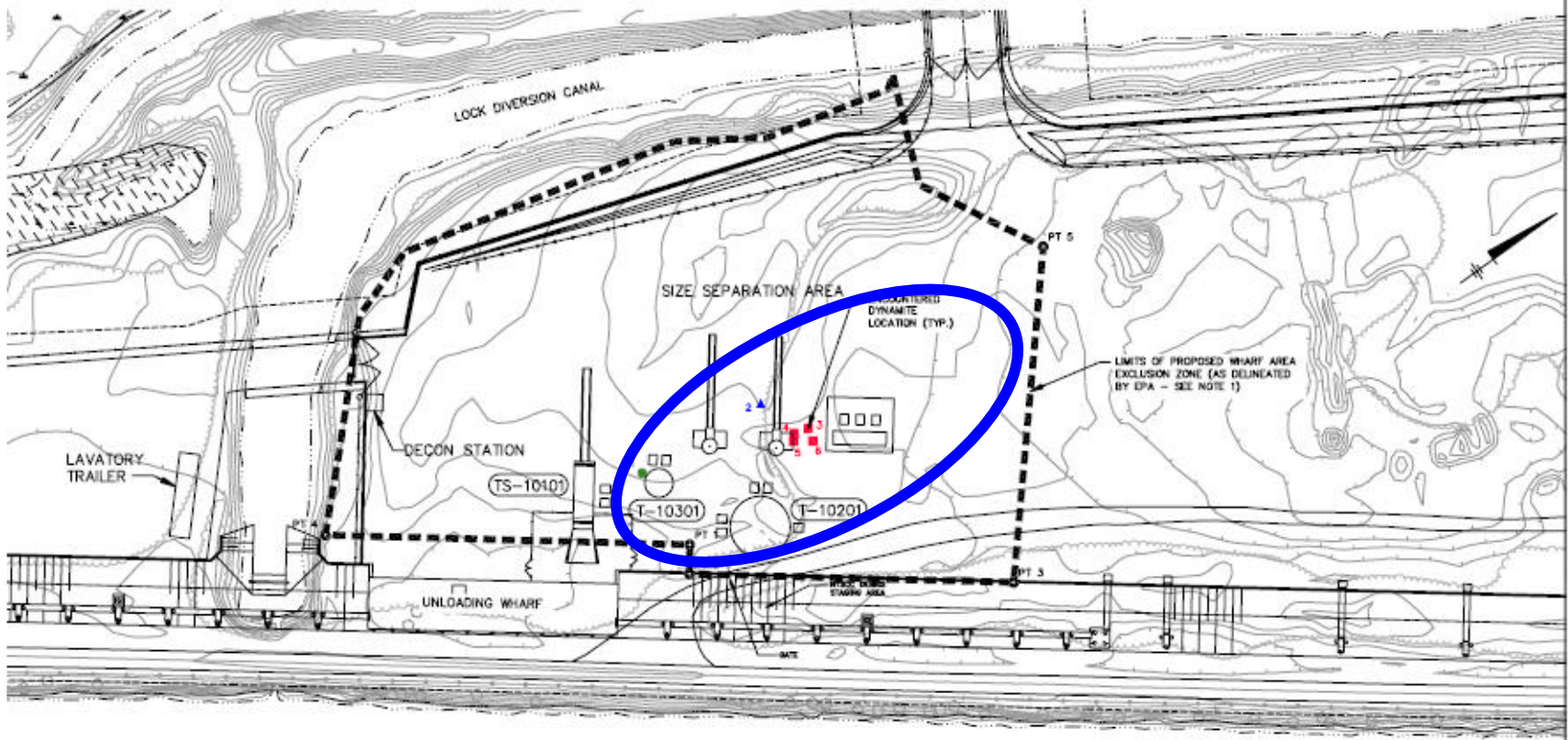
# Unexploded Ordnance (UXO)

- **Emergency Response**
  - **Followed Community Health and Safety Plan**
- **Area Secured**
- **Investigation/Removal Work Plan and Safety Plan developed**
- **Excavation work completed from December 4 to 31, 2007**
- **Dynamite was destroyed/burned on-site by the New York State Police**

# Next Steps

- Burn area soil testing
- Soil will be removed and properly disposed (about 15 to 20 cu yds)
- Area will be turned back to GE so they can continue work

10/15/2007 10:30 AM (LOCAL TIME) OFFICE: NEW YORK  
 10/15/2007 10:30 AM (LOCAL TIME) FIELD: NEW YORK  
 10/15/2007 10:30 AM (LOCAL TIME) PROJECT: GENERAL ELECTRIC COMPANY HUGON RIVER PCBs SUPERFUND SITE  
 10/15/2007 10:30 AM (LOCAL TIME) DRAWING: PROPOSED WHARF AREA EXCLUSION ZONE  
 10/15/2007 10:30 AM (LOCAL TIME) SCALE: AS SHOWN  
 10/15/2007 10:30 AM (LOCAL TIME) SHEET: 1 OF 1



| SYMBOL | ID | DESCRIPTION             | DATE DISCOVERED |
|--------|----|-------------------------|-----------------|
| ●      | 1  | DYNAMITE LAST FOUND     | 5/27/2007       |
| ▲      | 2  | SINGLE CASE OF DYNAMITE | 8/24/2007       |
| ■      | 3  | DYNAMITE GROUP          | 8/24/2007       |
| ■      | 4  | DYNAMITE GROUP          | 8/24/2007       |
| ■      | 5  | DYNAMITE GROUP          | 8/24/2007       |
| ■      | 6  | DYNAMITE GROUP          | 8/24/2007       |

| WHARF AREA EXCLUSION ZONE POINTS |             |            |
|----------------------------------|-------------|------------|
| POINT ID                         | NORTHING    | EASTING    |
| PT 1                             | 1820830.988 | 741553.874 |
| PT 2                             | 1820826.722 | 741387.624 |
| PT 3                             | 1820794.428 | 741485.915 |
| PT 4                             | 1820485.588 | 741222.083 |
| PT 5                             | 1820814.248 | 741553.861 |

**SITE PLAN**

NOTE:  
 1. FIGURE PREPARED AT THE REQUEST OF EPA'S ON-SITE REPRESENTATIVE. WHARF AREA EXCLUSION ZONE LIMITS AND COORDINATE POINT INFORMATION ARE BASED ON INFORMATION PROVIDED BY, DELINEATED BY, AND REQUESTED BY EPA'S ON-SITE REPRESENTATIVE.

← CHAMPLAIN CANAL

|   |             |
|---|-------------|
| GENERAL ELECTRIC COMPANY<br>HUGON RIVER PCBs SUPERFUND SITE |             |
| <b>PROPOSED WHARF AREA<br/>EXCLUSION ZONE</b>               |             |
| ARCADIS of New York, Inc.                                   | FIGURE<br>1 |
|   |             |













08/24/2007













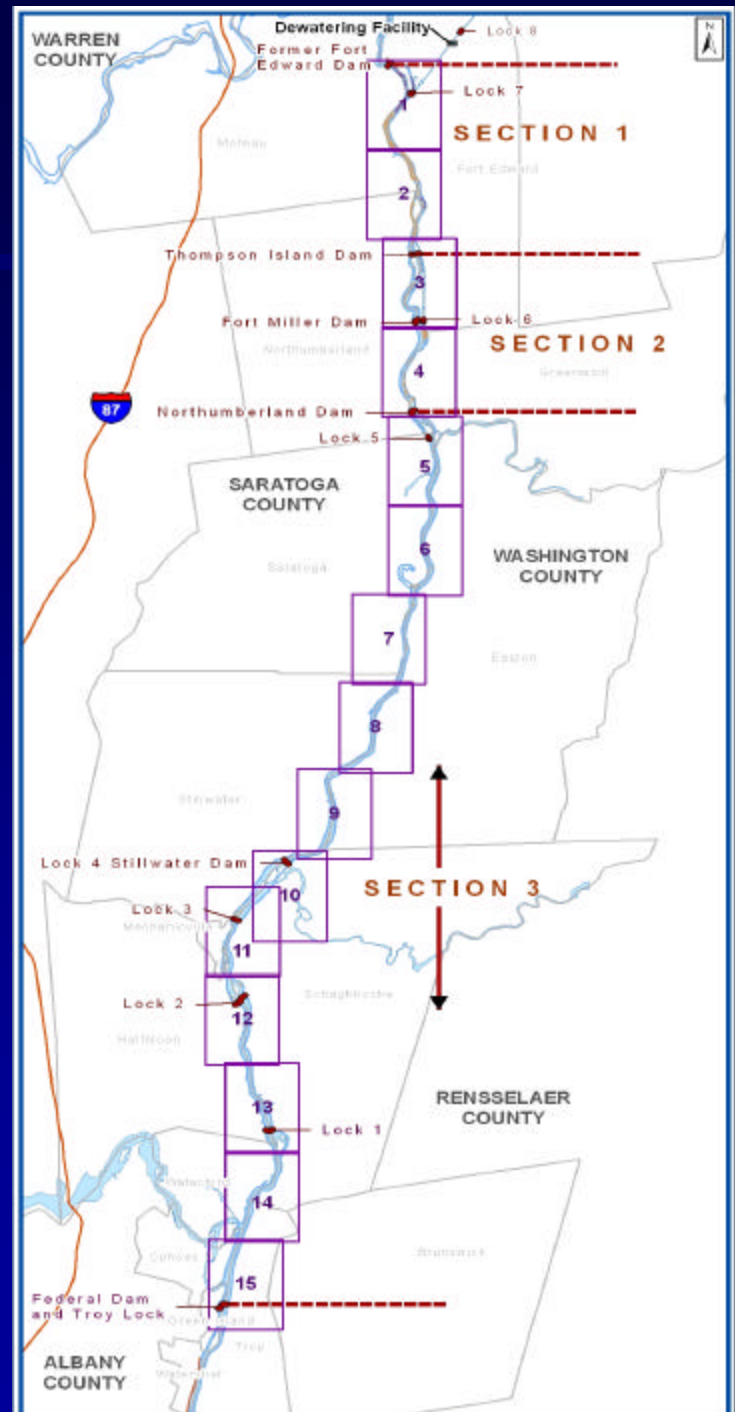
# Questions / Comments



# Dredge Area Delineation Phase 2

## LEGEND

-  Hudson River
-  Upper Hudson River Sections
-  Lock/Dam
-  Dredge Areas Phase 1
-  Dredge Areas Phase 2





# Phase 2 Dredge Area Delineation

- Based on more than 50,000 sediment samples (since 2002) sampling data allowed EPA and GE to:
  - determine the distribution of PCBs in the sediment
  - refine estimates of the amount and location of PCBs in the sediment
  - establish river sediment characteristics (e.g., silt, sand, gravel)
- 400 acres to be dredged during Phase 2 (490 acres total)
- Overall typical depth 3 ft (some areas extend to 5 ft or more)
  - Contaminated sediments are not as deep as was estimated during the ROD

# Dredging Areas by Project Phase

**Table 2 Comparison of ROD Estimates and Current Design Targets by Project Phase**

|         | ROD Estimates           |                  | Design Targets          |                  |
|---------|-------------------------|------------------|-------------------------|------------------|
|         | Volume of Sediment (cy) | Mass of PCB (kg) | Volume of Sediment (cy) | Mass of PCB (kg) |
| Phase 1 | 150,000–300,000         | ---              | 263,600                 | 20,300           |
| Phase 2 | 2,350,000–2,500,000     | ---              | 1,531,400               | 92,800           |

**ROD Estimate - 2,650,000 cy/70,000kg PCBs**

**Design Targets - 1,795,000 cy sediment/113,000 kg PCBs**



# Dredging by River Sections

- **River Section 1**
  - Fort Edward Dam to the Thompson Island Dam
- **River Section 2**
  - Thompson Island Dam to the Northumberland Dam
- **River Section 3**
  - Northumberland Dam to the Federal Dam at Troy

# Dredging Estimates by River Section

**Table 1 Comparison of ROD Estimates and Current Design Targets by River Section**

|                 | ROD Estimates           |                  | Design Targets          |                  |
|-----------------|-------------------------|------------------|-------------------------|------------------|
|                 | Volume of Sediment (cy) | Mass of PCB (kg) | Volume of Sediment (cy) | Mass of PCB (kg) |
| River Section 1 | 1,492,000               | 36,000           | 939,800                 | 60,600           |
| River Section 2 | 565,000                 | 23,600           | 364,000                 | 28,500           |
| River Section 3 | 393,000                 | 6,700            | 491,000                 | 24,000           |

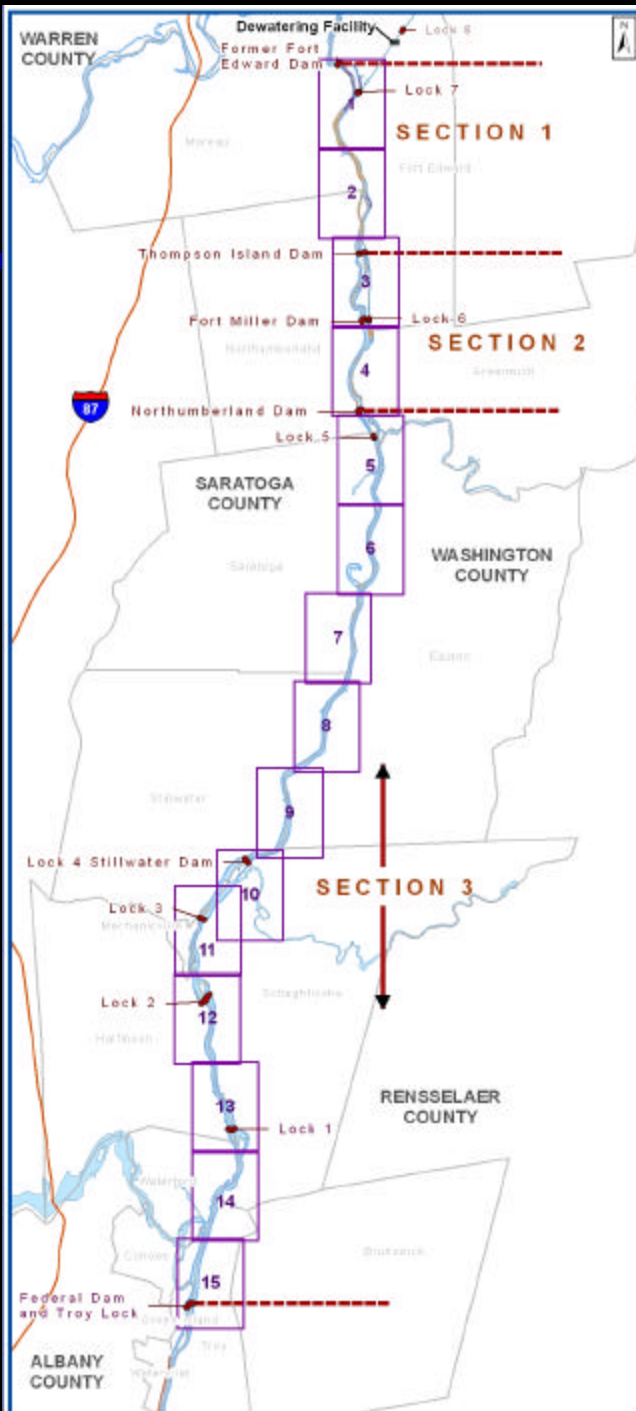
**ROD Estimate - 2,650,000 cy/70,000kg PCBs**

**Design Targets - 1,795,000 cy sediment/113,000 kg PCBs**

# Additional Dredge Area Delineation Information




- Public input will be considered while moving ahead with Phase 2 design
- Dredge areas may be adjusted during design to account for underwater structures (e.g., pipes), protection of habitats and cultural artifacts, and other design considerations
  - changes will be included in the Phase 2 Design Reports
- Some additional sampling needed to fill data gaps (including along the shoreline); to be conducted in 2008, results to be incorporated into the Phase 2 Design





# Map Index Dredging Areas Phase 2

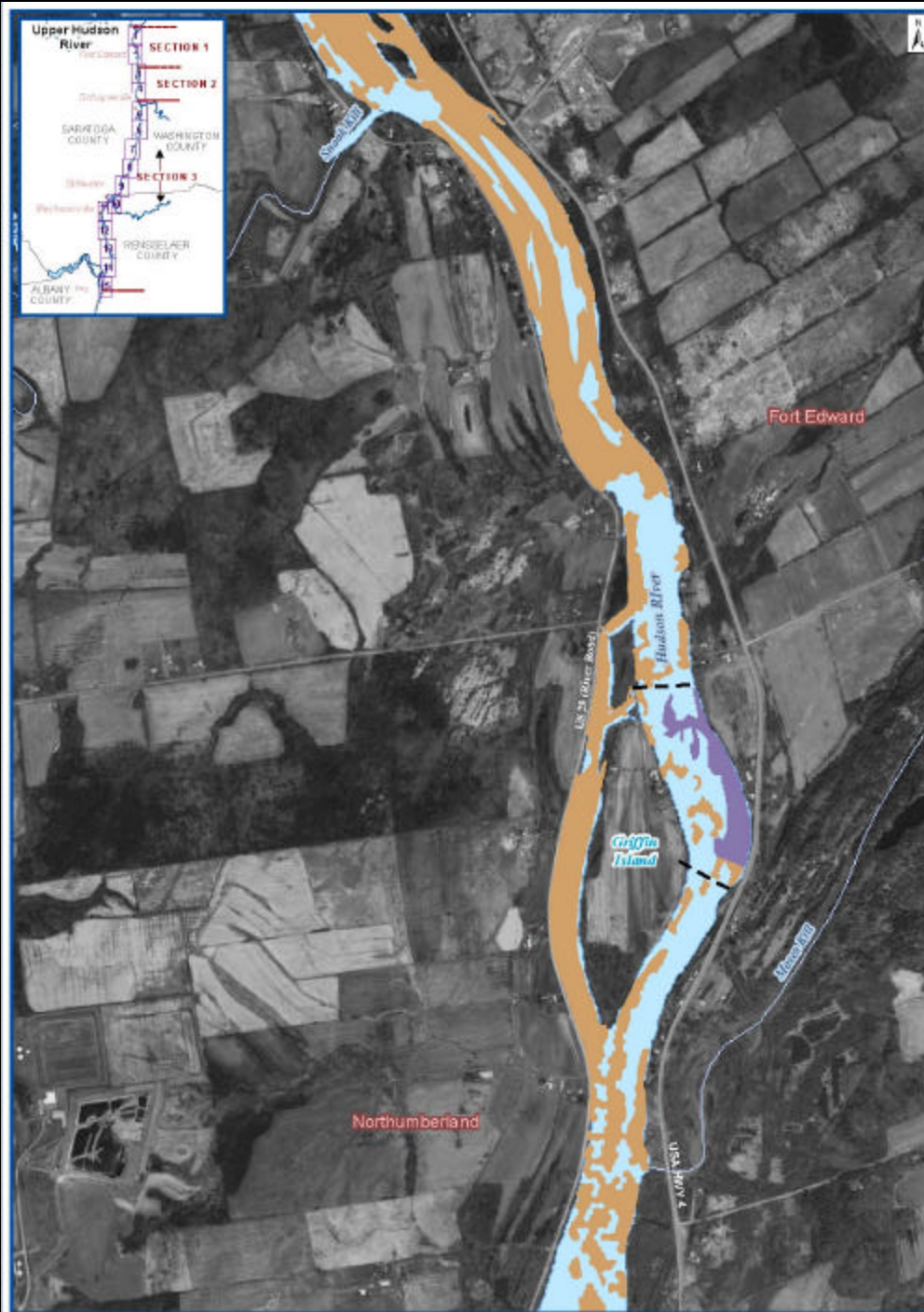
**LEGEND**

-  Hudson River
-  Upper Hudson River Sections
-  Lock/Dam
-  Dredge Areas Phase 1
-  Dredge Areas Phase 2

# Map 1

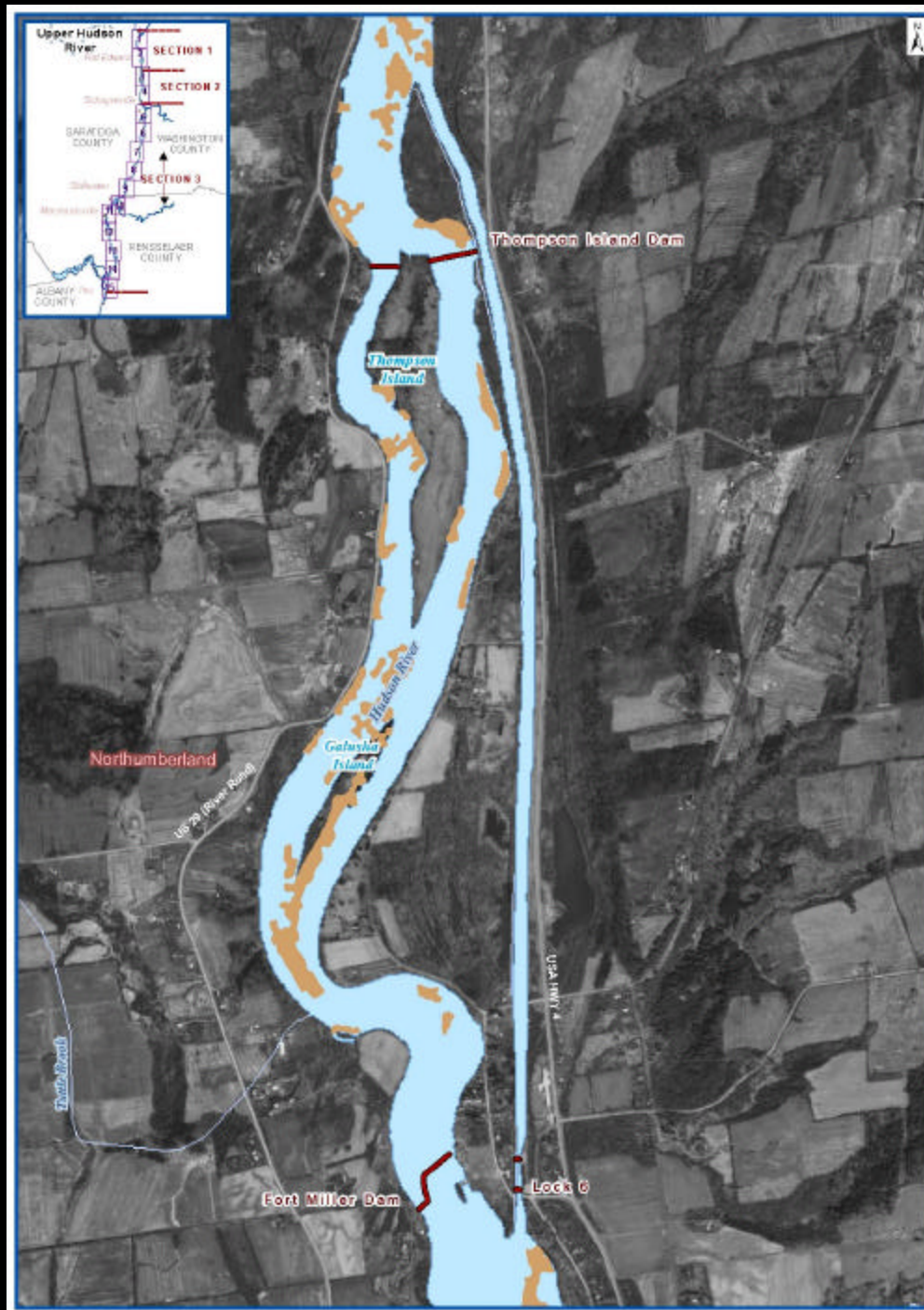


# Map 2





# Map 3

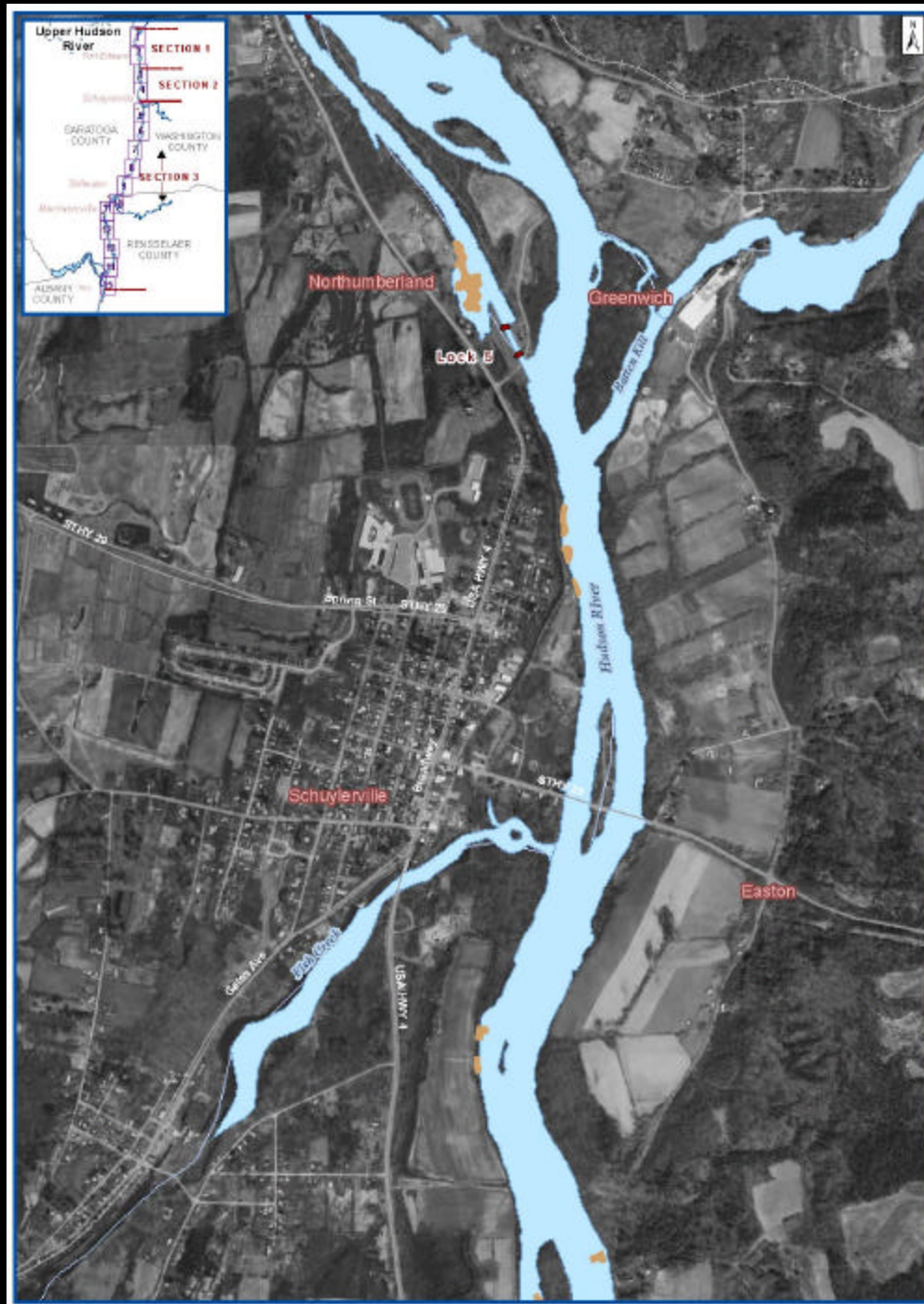


# Map 4





# Map 5

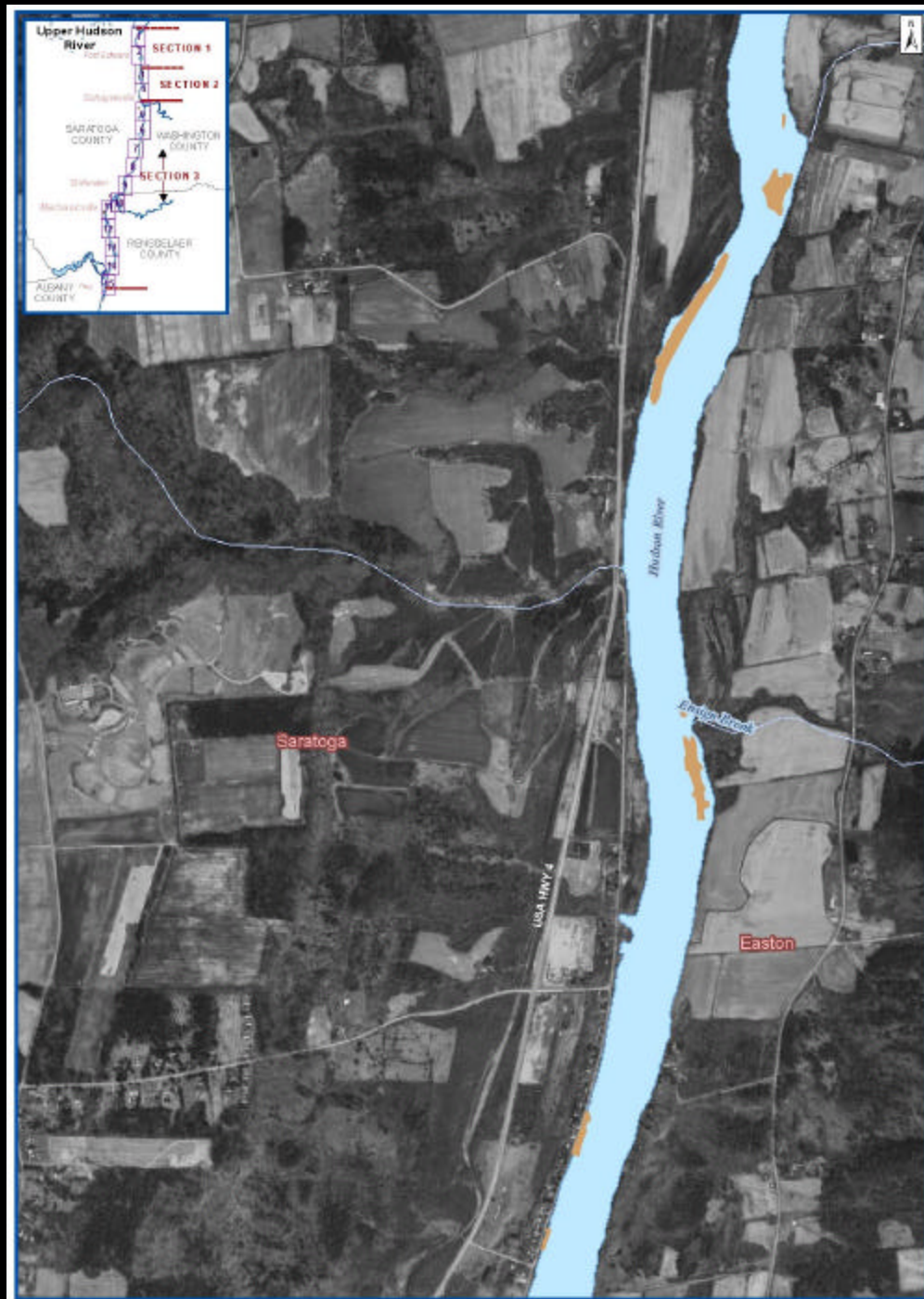




# Map 6



# Map 7





# Map 8

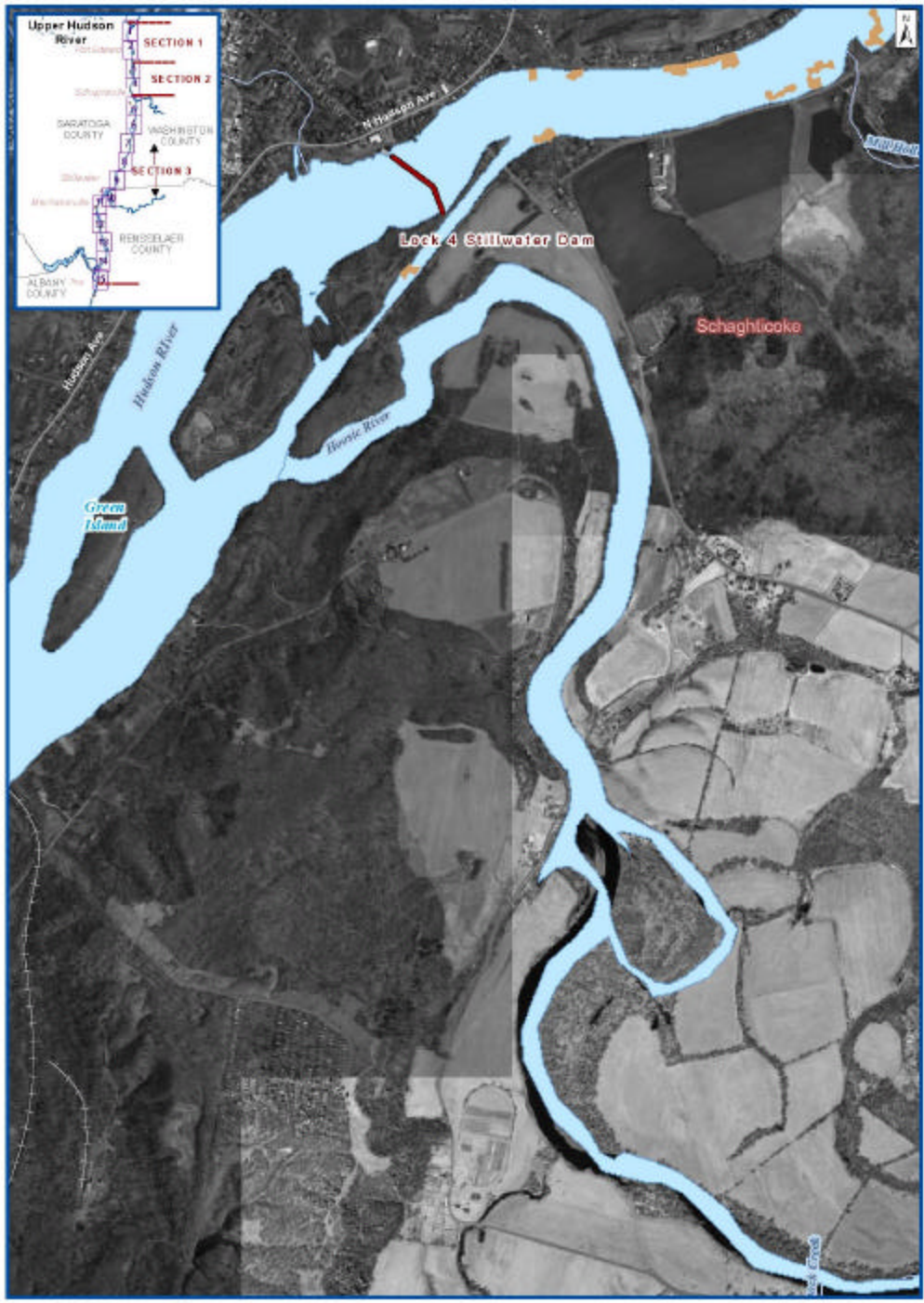




# Map 9

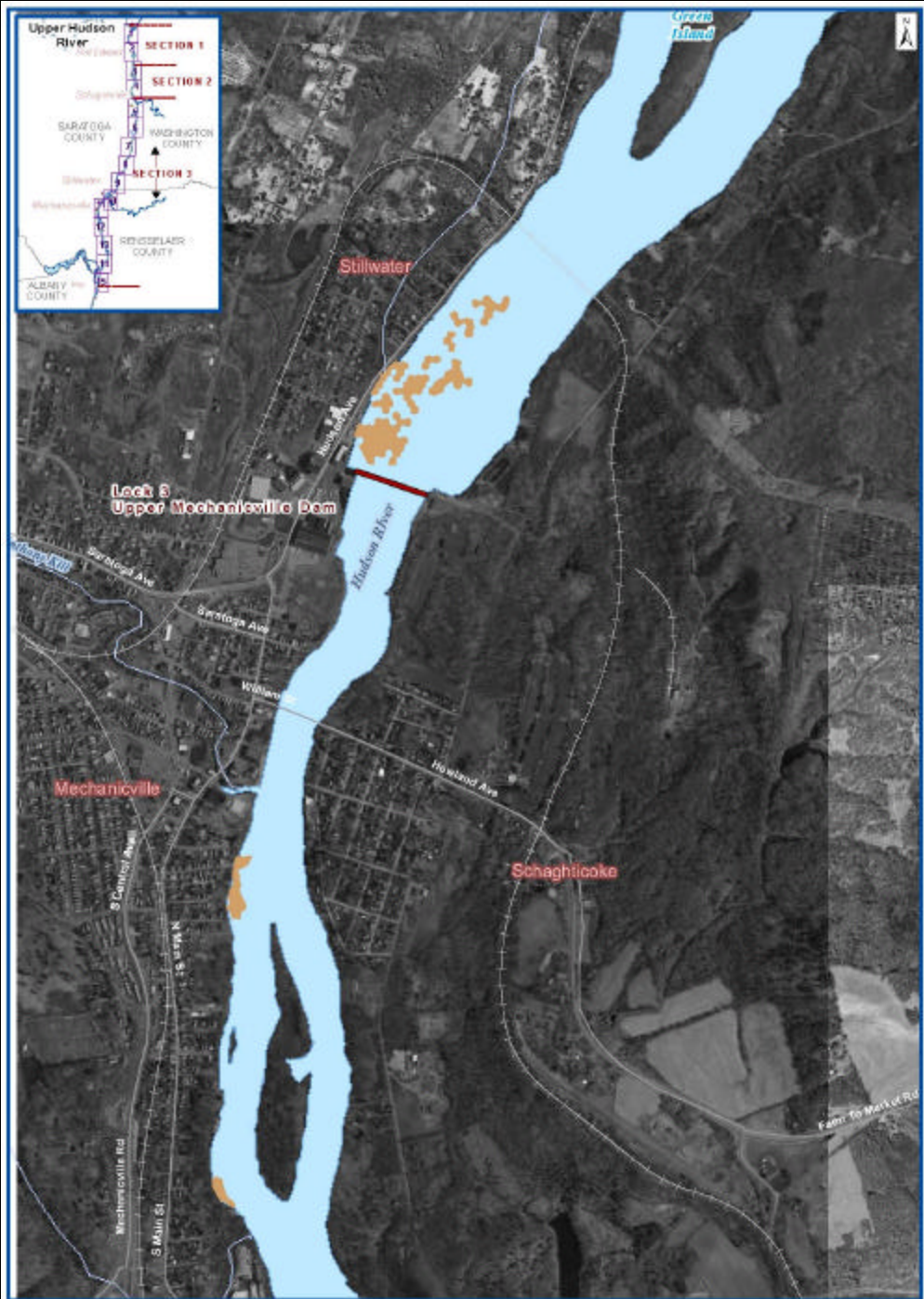


# Map 10



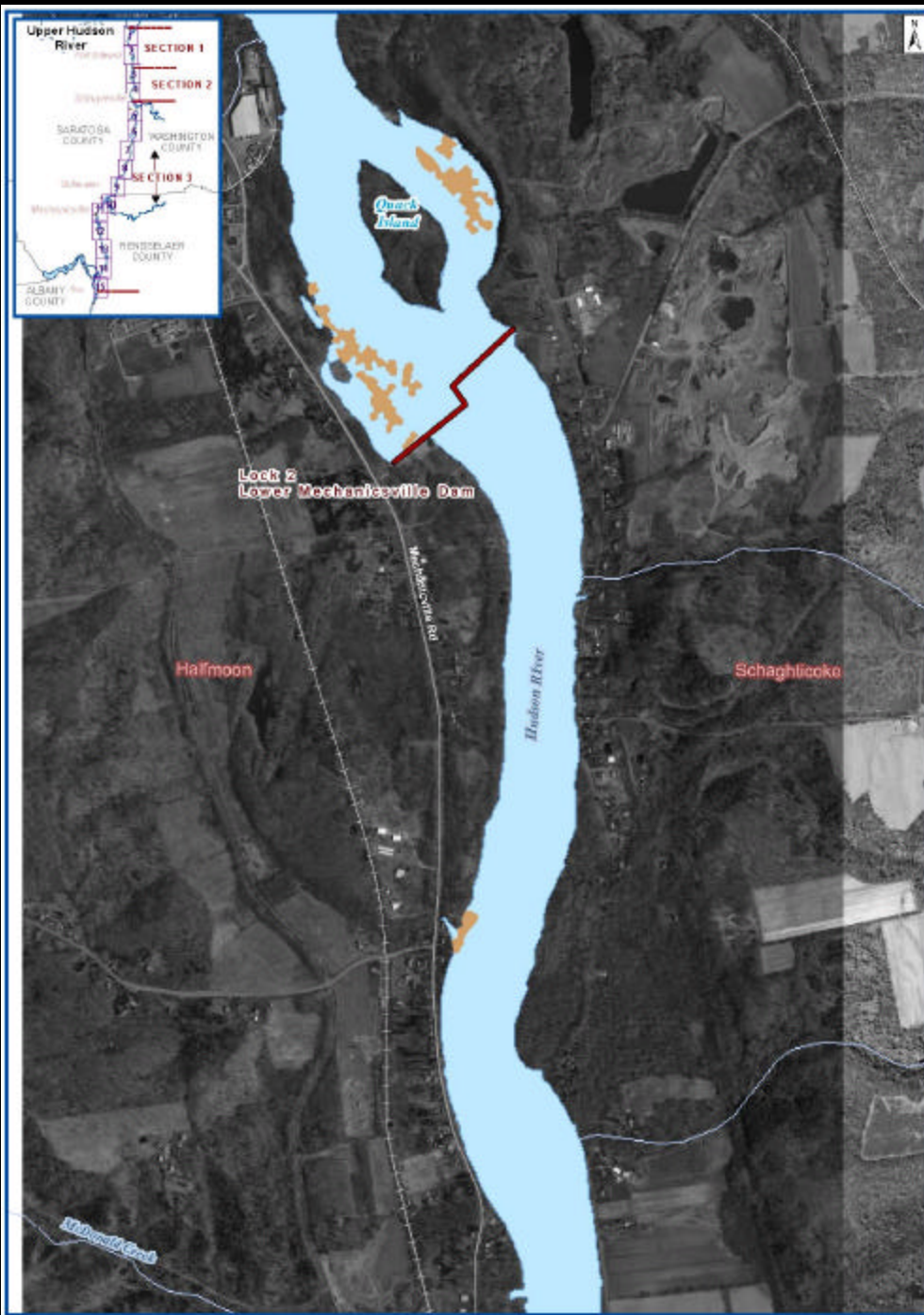


# Map 11

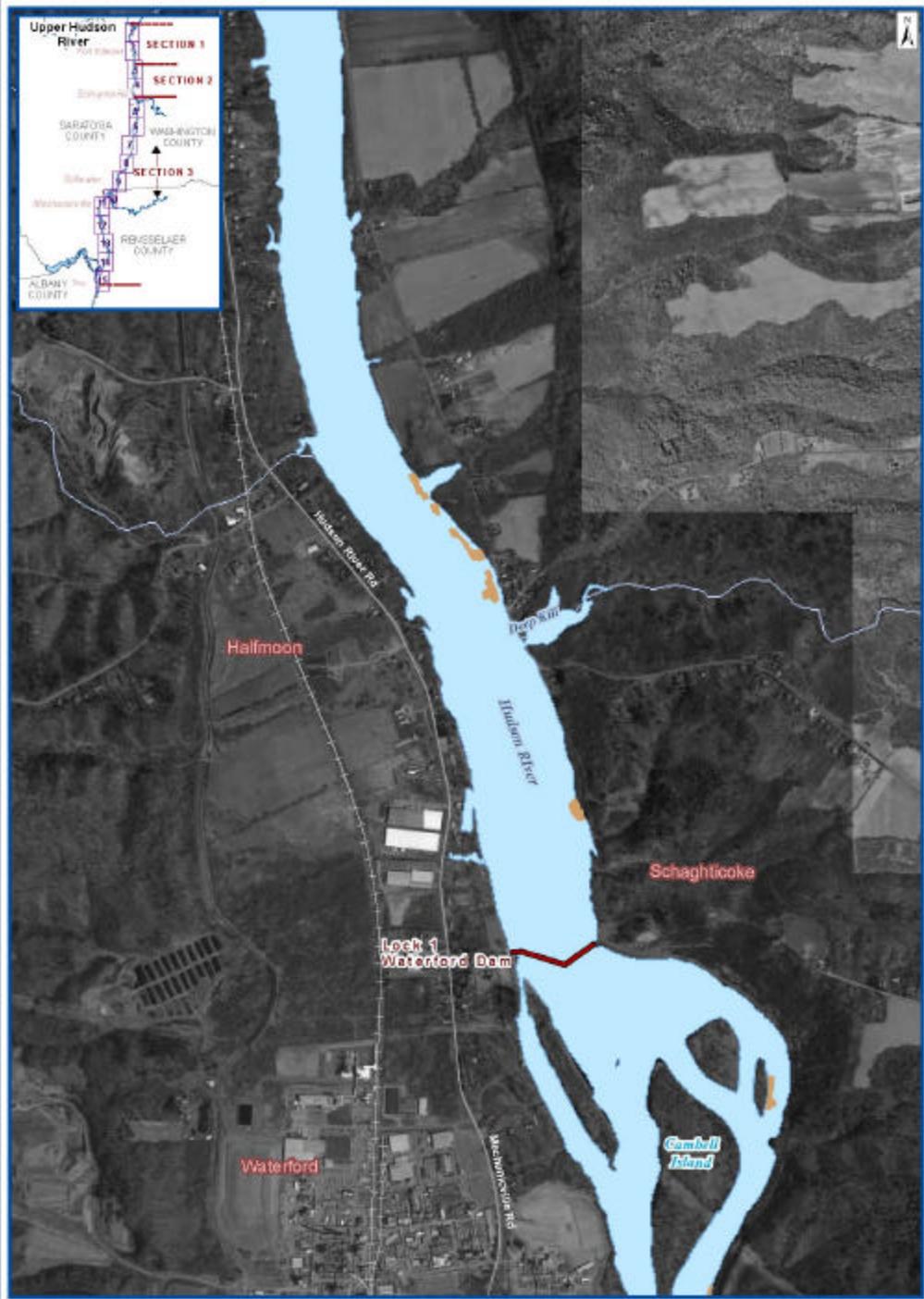




# Map 12



# Map 13





# Map 14





# Map 15



# EPA Contacts

- **Dave King**  
Director  
Hudson River Field Office  
421 Lower Main Street  
Hudson Falls, NY 12839  
(518) 747-4389  
[king.david@epa.gov](mailto:king.david@epa.gov)
- **Kristen Skopecck**  
Public Affairs Specialist  
Hudson River Field Office  
421 Lower Main Street  
Hudson Falls, NY 12839  
(518) 747-4389  
[skopecck.kristen@epa.gov](mailto:skopecck.kristen@epa.gov)

# Questions / Comments

