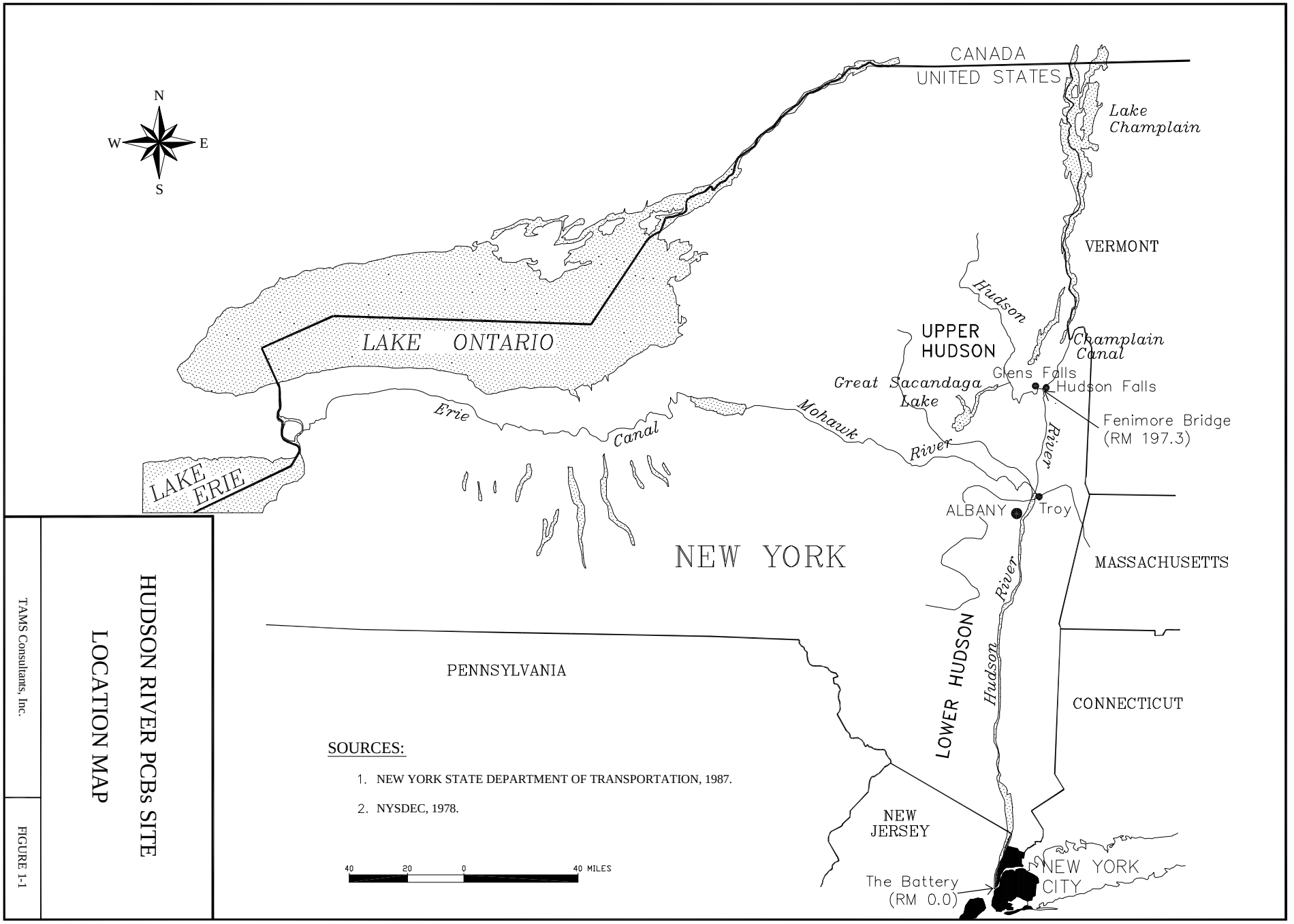
Hudson River PCBs Site
Record of Decision

Figures



SOURCES:

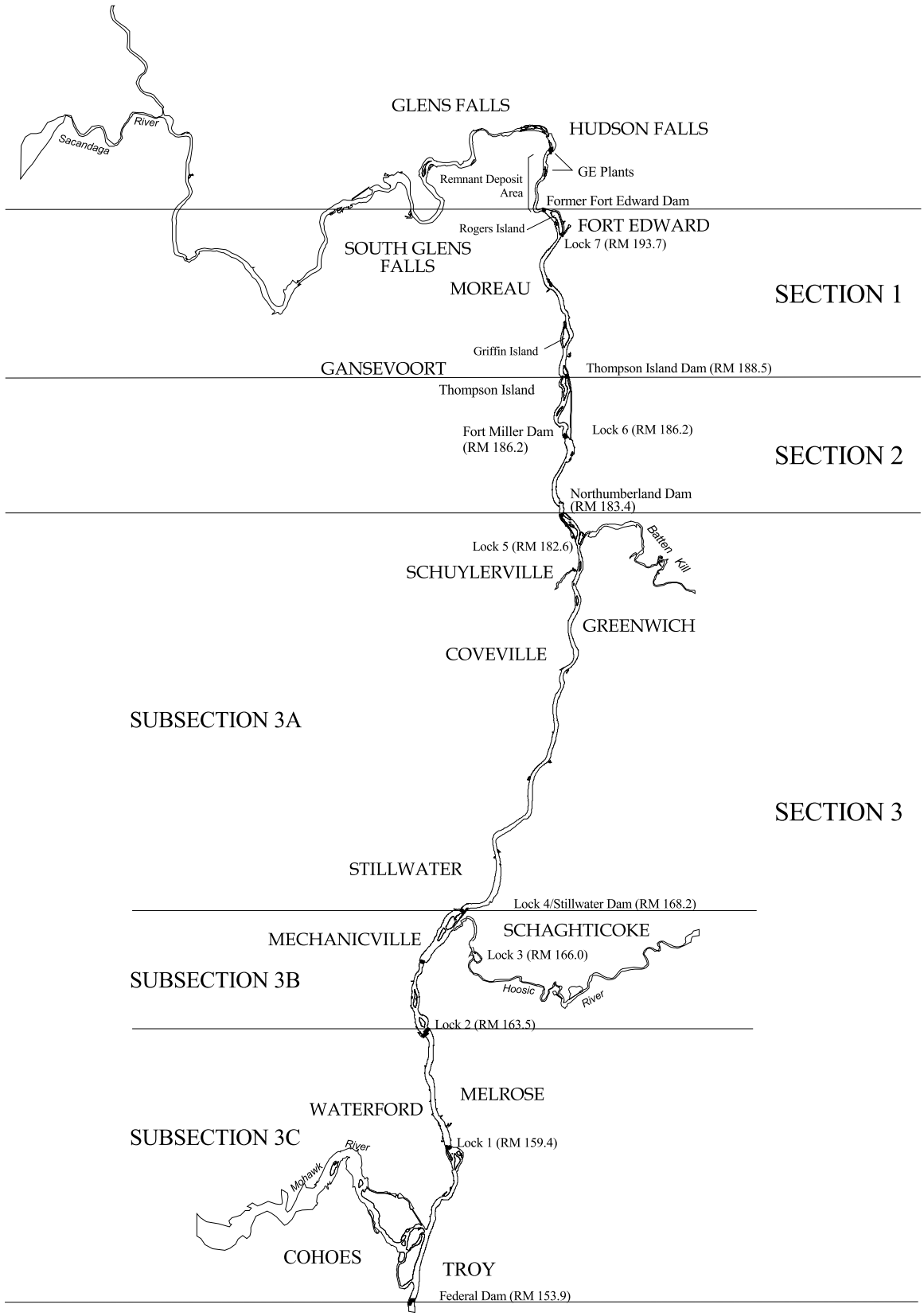
1. NEW YORK STATE DEPARTMENT OF TRANSPORTATION, 1987.
2. NYSDEC, 1978.

HUDSON RIVER PCBs SITE

LOCATION MAP

TAMS Consultants, Inc.

FIGURE 1-1



5 0 5
Scale in Miles

4 0 4 8 12
Scale in Kilometers

N
W E
S

HUDSON RIVER PCBs REASSESSEMENT RI/FS
FEASIBILITY STUDY

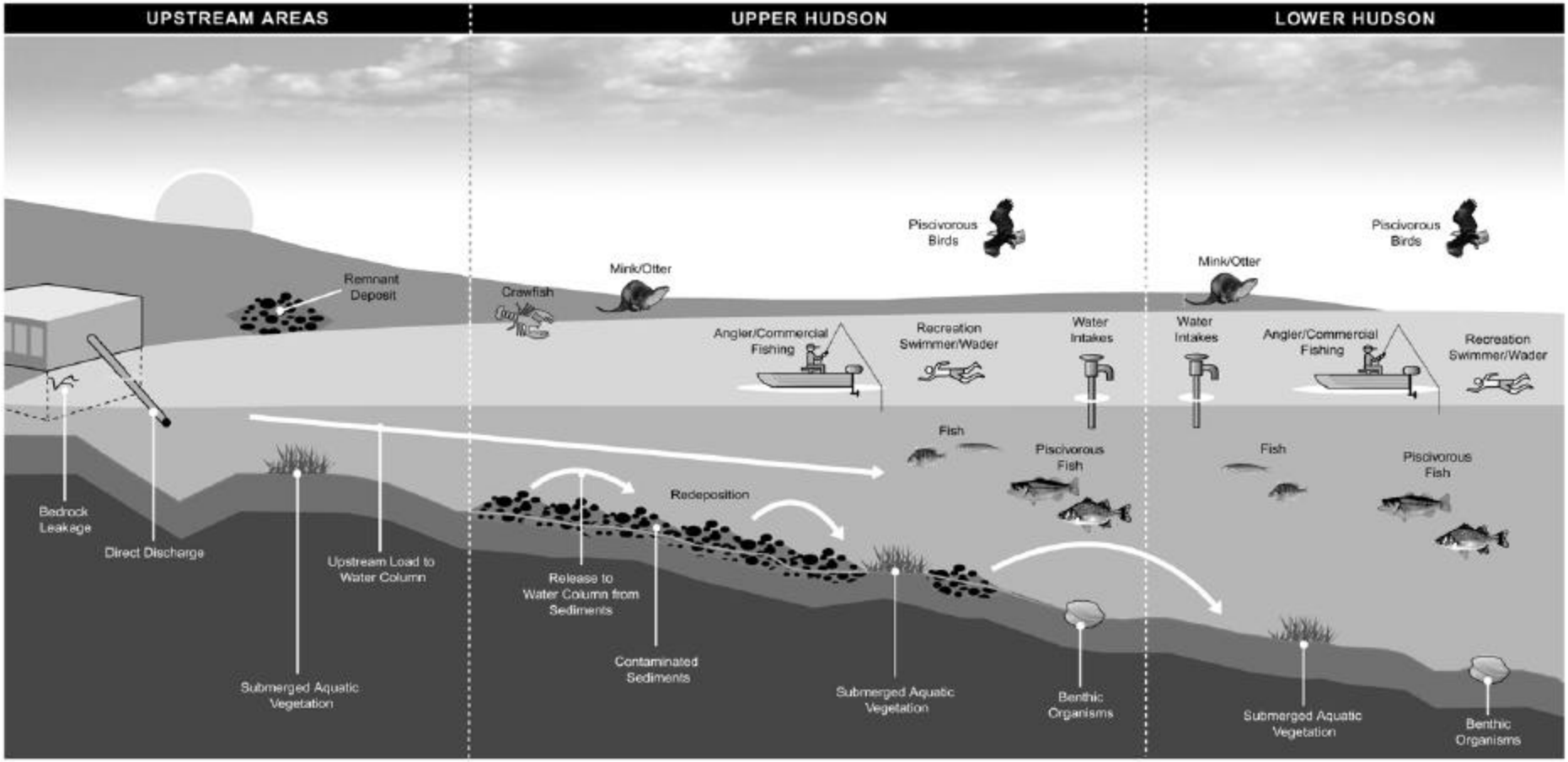
Hudson River PCBs Site
River Sections for Alternatives Evaluation

TAMS CONSULTANTS, Inc. | Figure 1-2

FIGURE 6-1

Conceptual Site Model

Release of PCBs - Completed Exposure Pathways



SOURCES

Primary Sources
- GE Hudson's Falls Plant
- GE Fort Edward Plant
- Remnant Deposits 1-5

Lesser Up Stream
- Niagara Mohawk Queensbury Site
- Atmospheric Sources
- Others

CONTAMINATED MEDIA

- Fish
- Sediment
- River Water
- Outdoor Air
- Other Non-Fish Biota

RECEPTORS

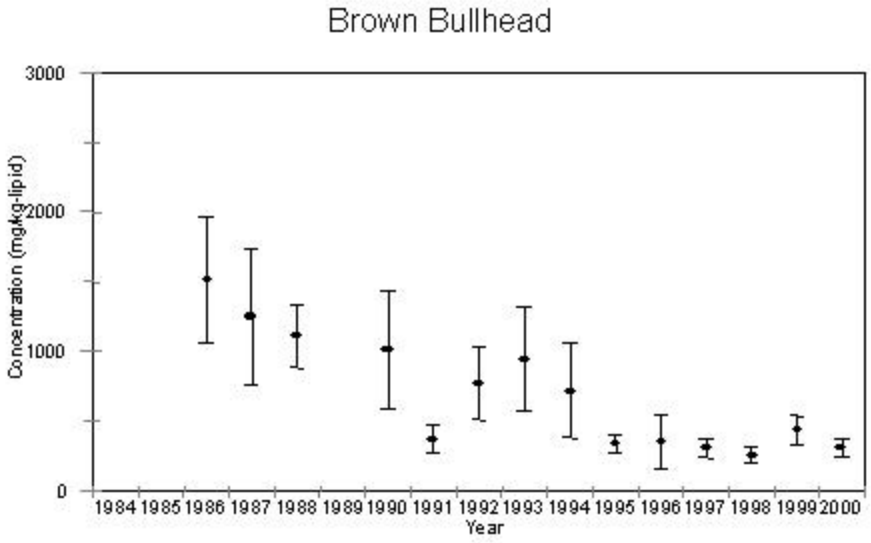
Human
- Angler
- Recreator
- Resident

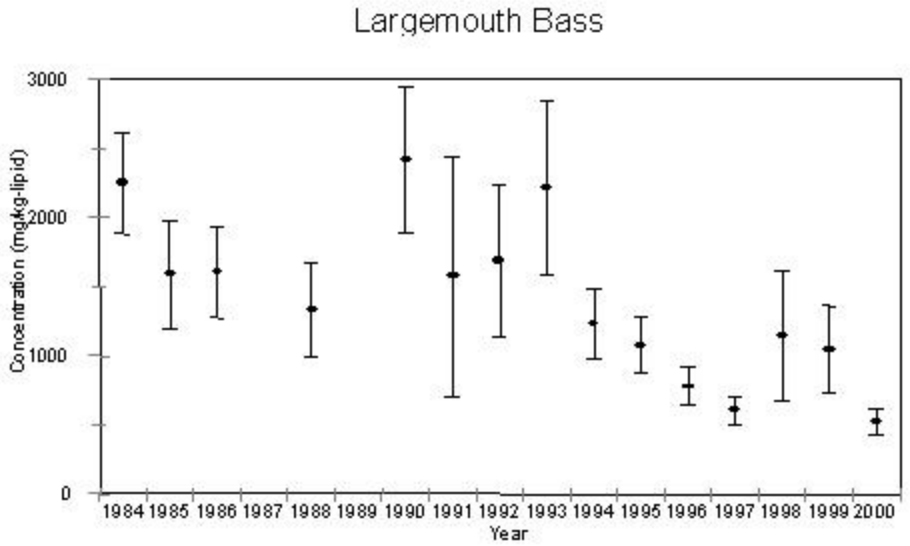
Ecological
- Trophic Levels 1-5

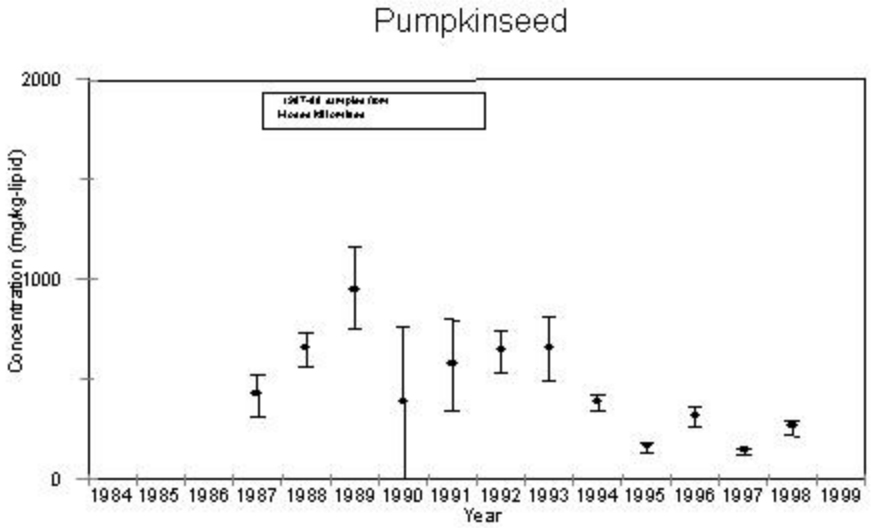
This graphic depicts a general overview. Tables in the summary of site risks sections provide additional details regarding human and ecological receptors and exposures.

Figure 6-2: Lipid-based Tri+ PCB Concentrations in Fish

Thompson Island Pool (RM 189)



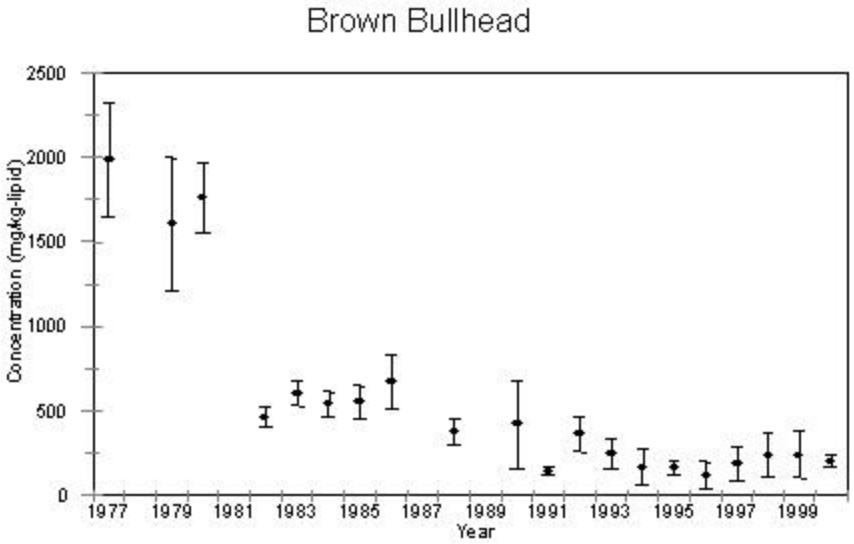


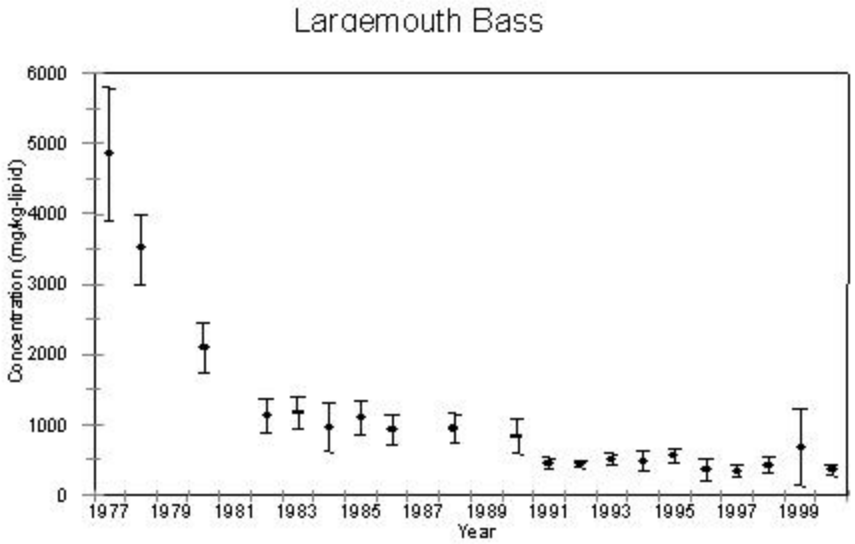


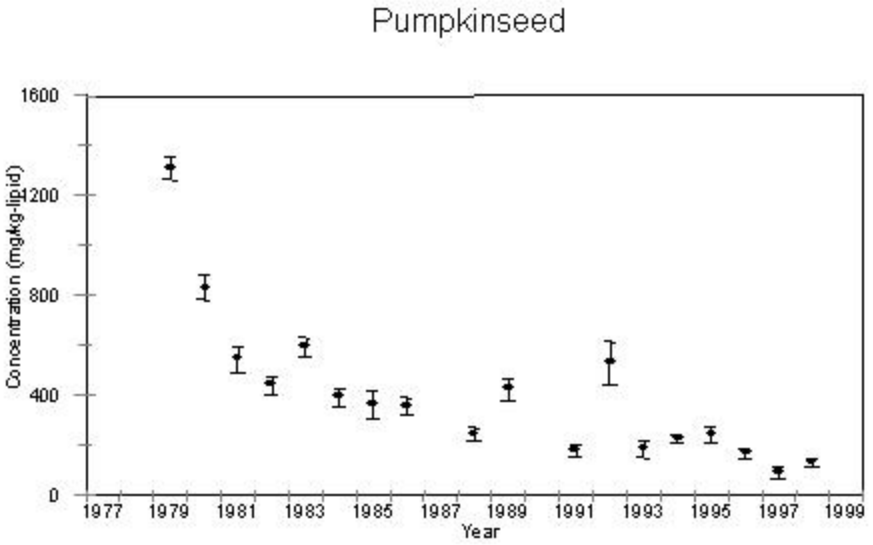
Vertical bars show arithmetic means and 95% confidence limits for NYSDEC observations, converted to a consistent Tri+ basis.

Figure 6-3: Lipid-based Tri+ PCB Concentrations in Fish

Stillwater Reach

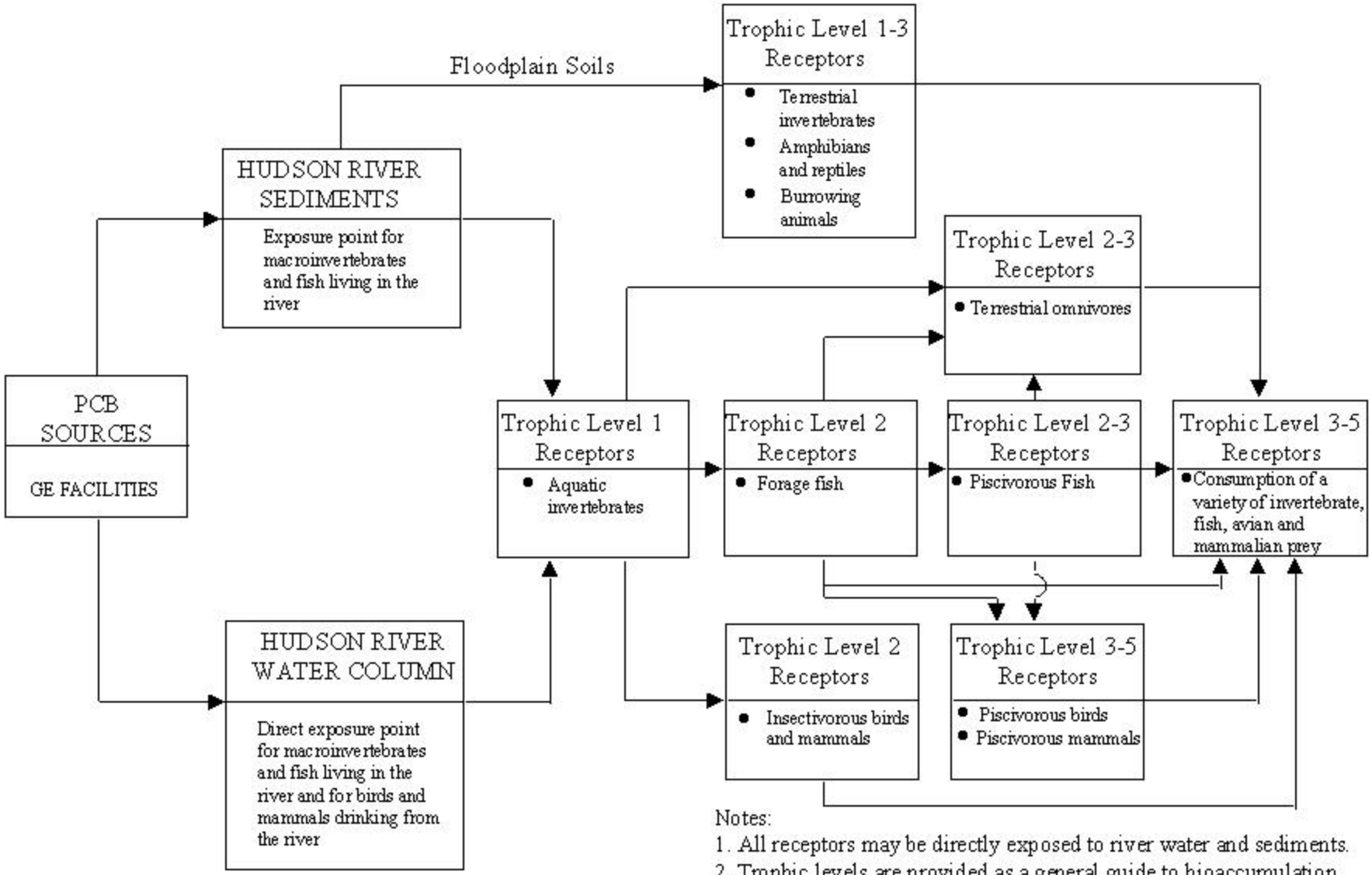






Vertical bars show arithmetic means and 95% confidence limits for NYSDEC observations, converted to a consistent Tri+ basis.

Figure 8-1
Hudson River PCB Reassessment
Ecological Conceptual Model

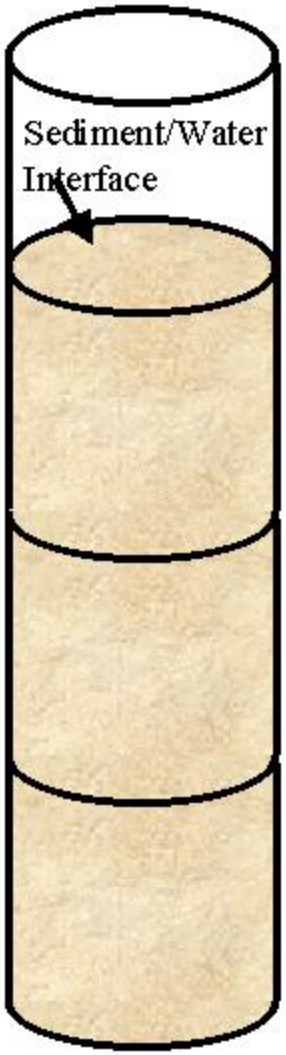


Notes:

1. All receptors may be directly exposed to river water and sediments.
2. Trophic levels are provided as a general guide to bioaccumulation potential, but vary according to species and food availability.

Figure 10-1: Example Mass Per Unit Area (MPA) Calculation

Mass Per Unit Area (MPA) Calculation



Length	×	PCB Conc.	×	Solid Specific Weight	×	Unit Corrections	=	Mass PCBs Per Unit Area
25 cm	×	1,352 µg /g	×	0.52 g/cm^3	×	10^{-6} g/µg ×10^4 cm^2/m^2	=	**179 g/m^2**
25 cm	×	343 µg/g	×	0.74 g/cm^3	×	10^{-6} g/µg ×10^4 cm^2/m^2	=	**64 g/m^2**
25 cm	×	5 µg/g	×	0.88 g/cm^3	×	10^{-6} g/µg× 10^4 cm^2/m^2	=	**1 g/m^2**

Total Mass per Unit Area in Core: 244 g/m^2