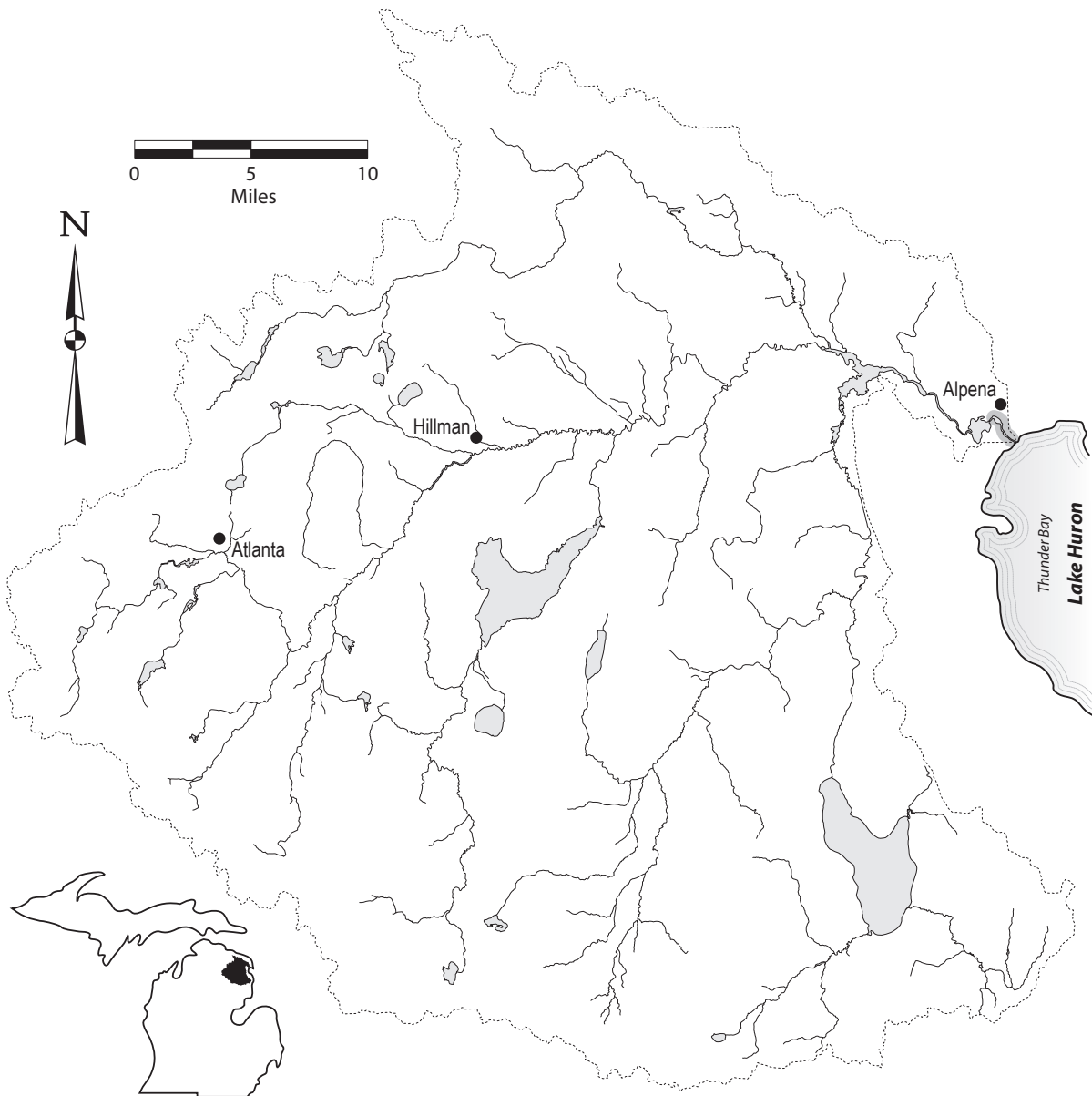


**Spotfin shiner** (*Cyprinella spiloptera*)

**Habitat:**

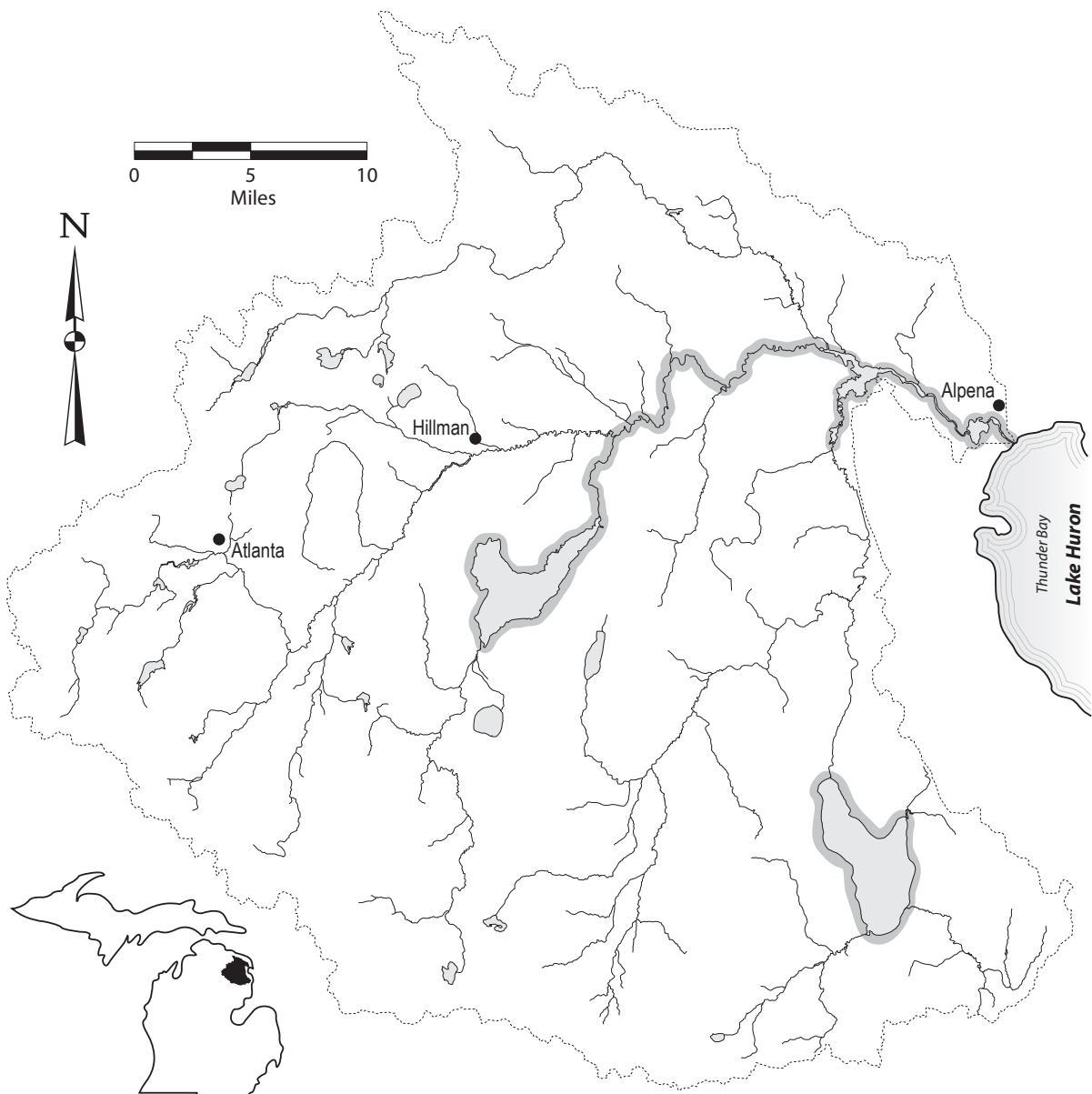
- feeding
  - clear water tolerant of turbidity and siltation
  - some current
  - shallow depths
  - medium sized streams, lakes, and impoundments
  - clear sand or gravel substrate
  
- spawning
  - swift current
  - crevice spawner or on underside of submerged logs and roots



**Common carp (*Cyprinus carpio*)**

**Habitat:**

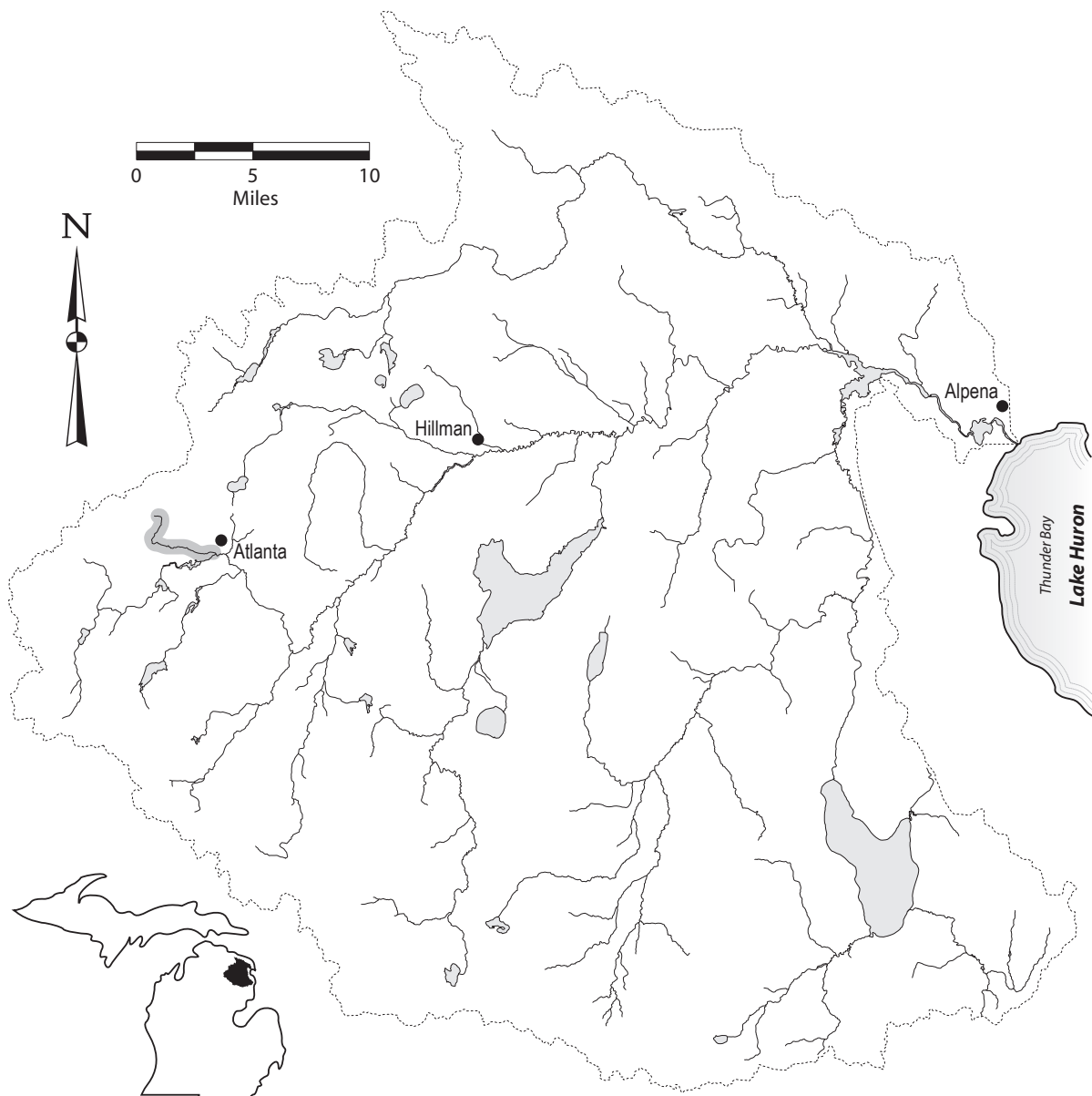
- feeding - low gradient fertile streams, rivers, lakes, and impoundments
- abundance of aquatic vegetation or organic matter
- tolerant of all substrates and clear to turbid water
  
- spawning - weedy or grassy shallows



**Brassy minnow** (*Hybognathus hankinsoni*)

**Habitat:**

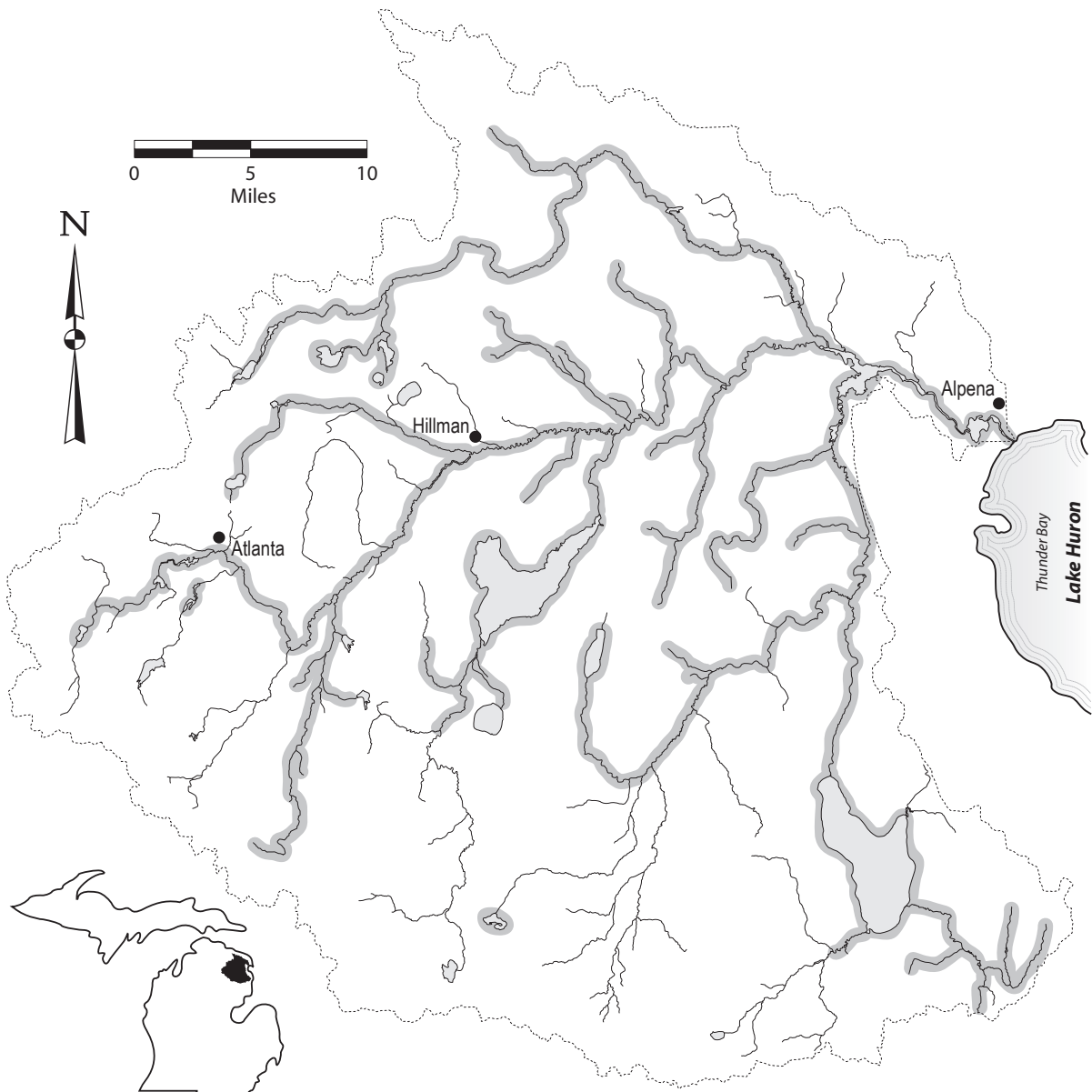
- feeding - cool acidic streams
- slow to moderate current
- sand or gravel substrate



**Common shiner (*Luxilus cornutus*)**

**Habitat:**

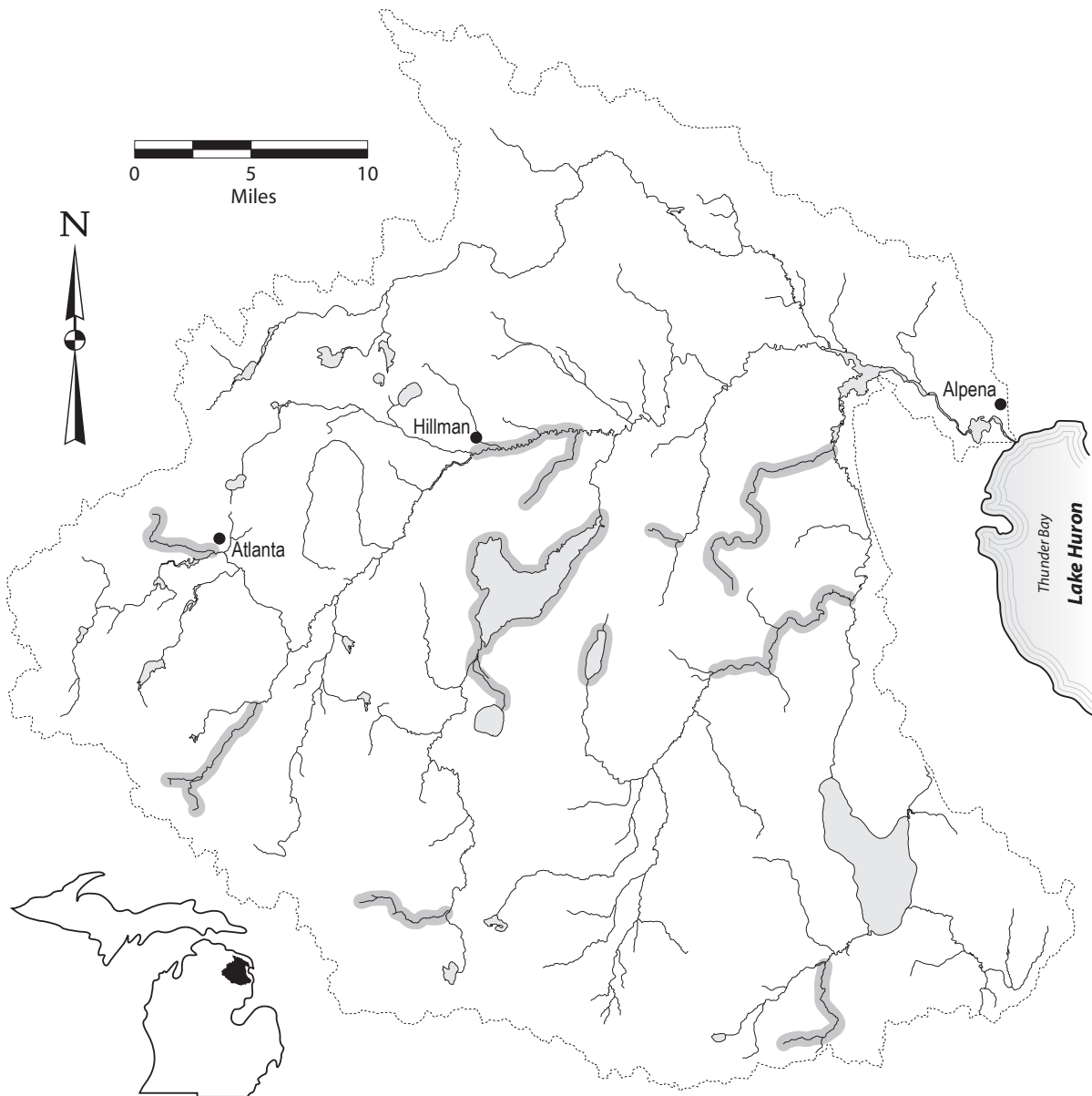
- feeding - small, clear, high-gradient streams and rivers, or shores of clear water lakes and impoundments
  - gravel substrate
  - can tolerate some submerged aquatic vegetation
  - not very tolerant of turbidity or silted waters
  
- spawning - gravel nests of other fish, especially those at the head of a riffle



**Northern pearl dace (*Margariscus nachtriebi*)**

**Habitat:**

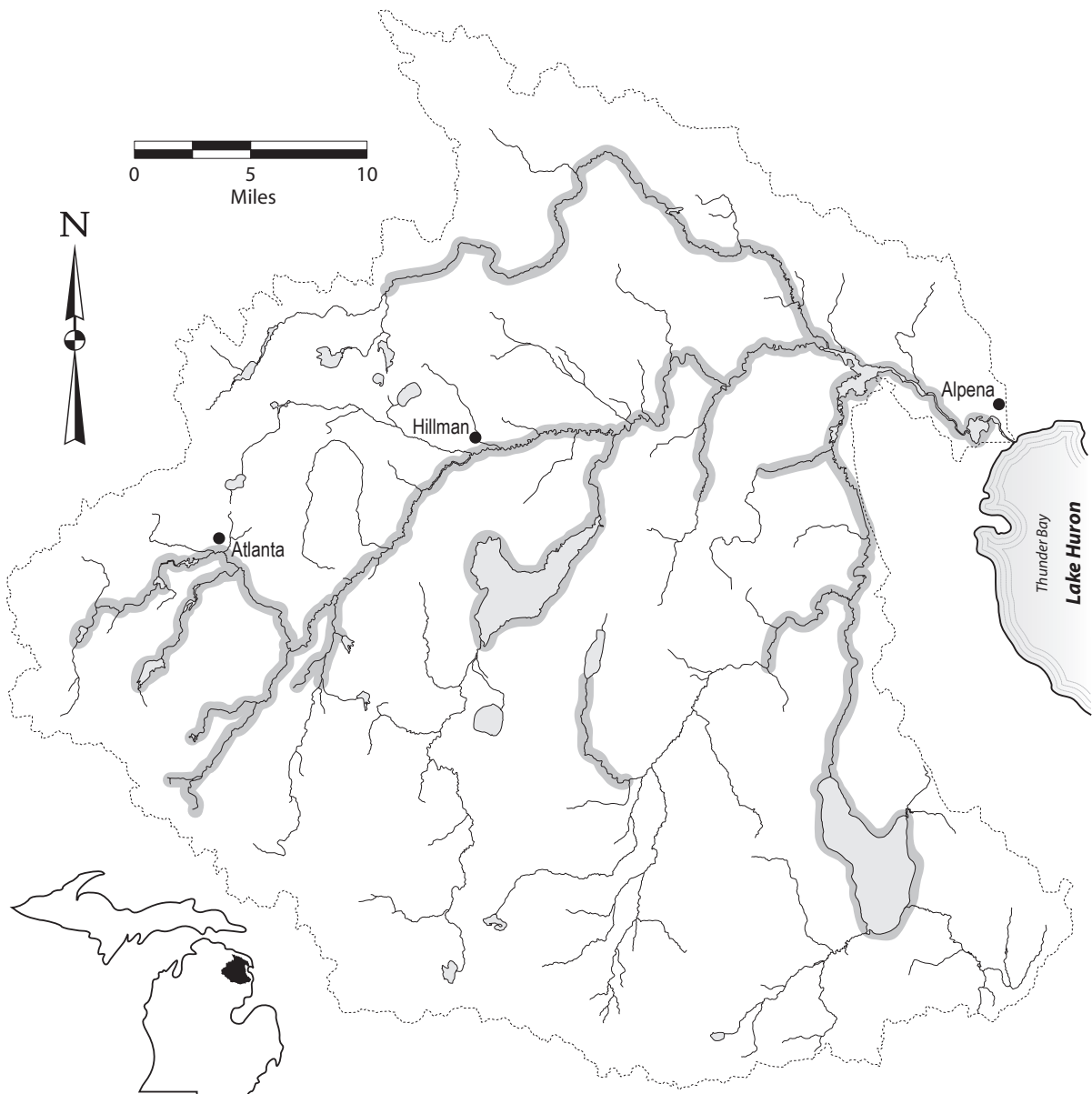
- feeding - cool, neutral to acidic streams and lakes
- clear to slightly turbid water
  
- spawning - males are territorial
- clear water, 18-24 inches deep
- sand or gravel substrate
- weak to moderate current



**Hornyhead chub** (*Nocomis biguttatus*)

**Habitat:**

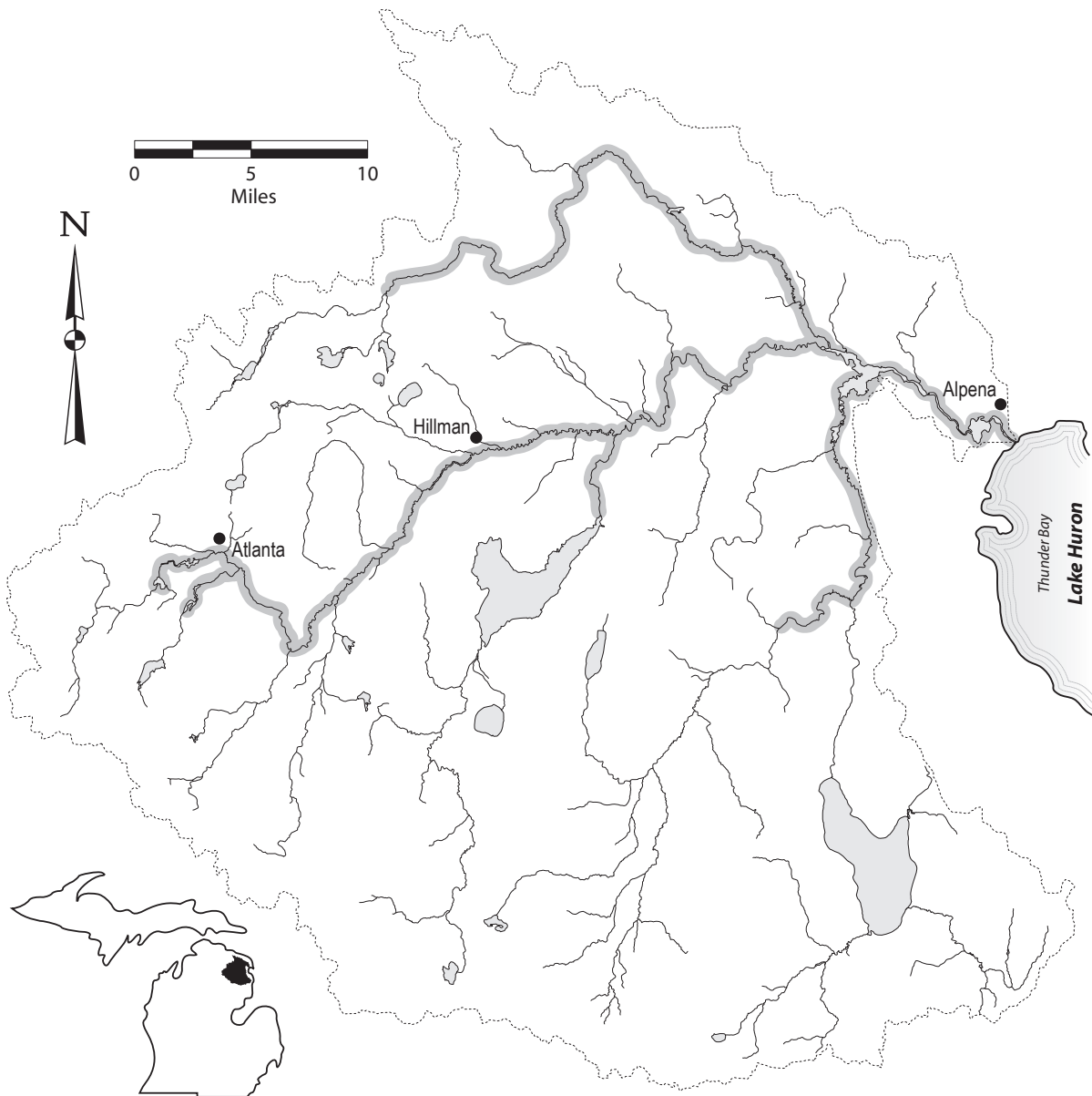
- feeding - adults: near riffles
  - young: near vegetation
  - clear water, does not tolerate turbidity
  - gravel substrate
  - low gradient streams that are tributaries to large streams
- 
- spawning - large stones and pebbles present
  - often below a riffle in shallow water
  - gravel substrate



**River chub** (*Nocomis micropogon*)

**Habitat:**

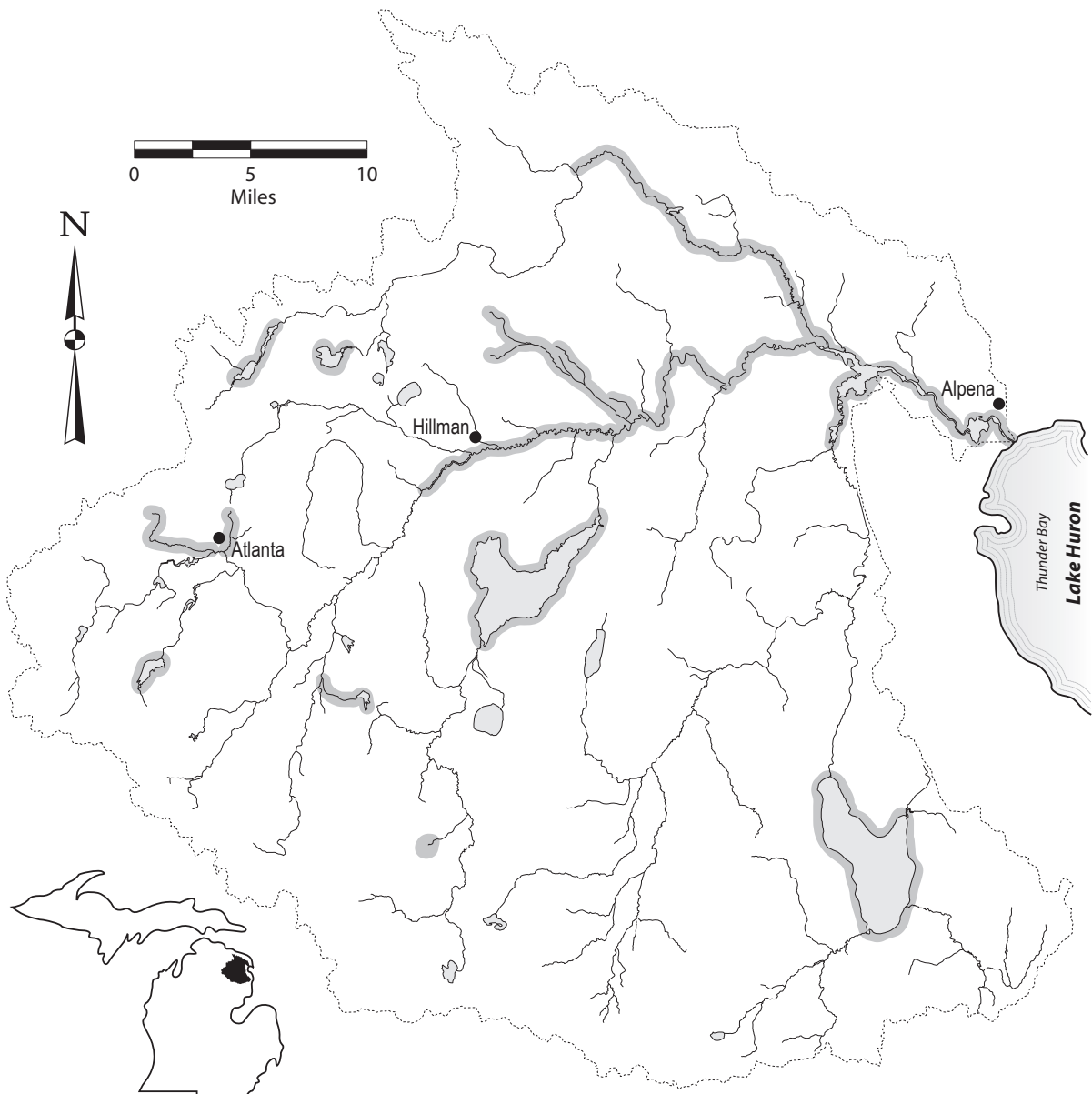
- feeding - moderate to large streams
- moderate to high gradient
- gravel, boulder, or bedrock substrate
- little to no aquatic vegetation
- cannot tolerate turbidity or siltation



**Golden shiner** (*Notemigonus crysoleucas*)

**Habitat:**

- feeding - lakes and impoundments and quiet pools of low gradient streams
- clear shallow water
- heavy vegetation
  
- spawning - vegetation

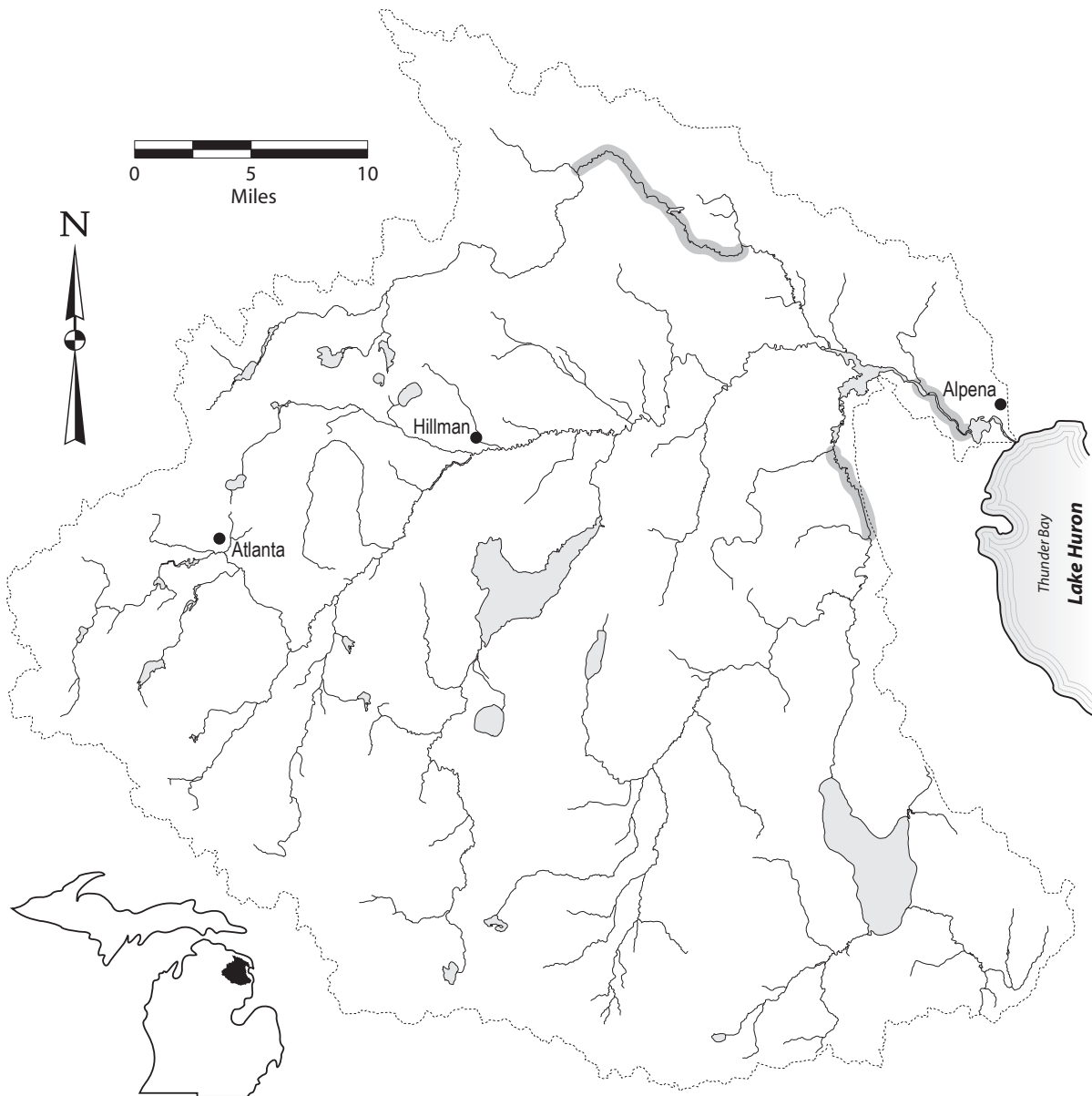




**Pugnose shiner (*Notropis anogenus*) – special concern**

**Habitat:**

- feeding - very clear water of lakes, impoundments, and low-gradient streams
- aquatic vegetation
- clean sand, marl, or organic debris substrate
- extremely intolerant of turbidity



**Emerald shiner (*Notropis atherinoides*)**

**Habitat:**

- feeding - open-large stream channels and lake
  - low to moderate gradient
  - range of turbidities and bottom types
  - midwater or surface preferred, substrate of little importance
  - avoids rooted vegetation
- spawning - sand or firm mud substrate or gravel shoals

