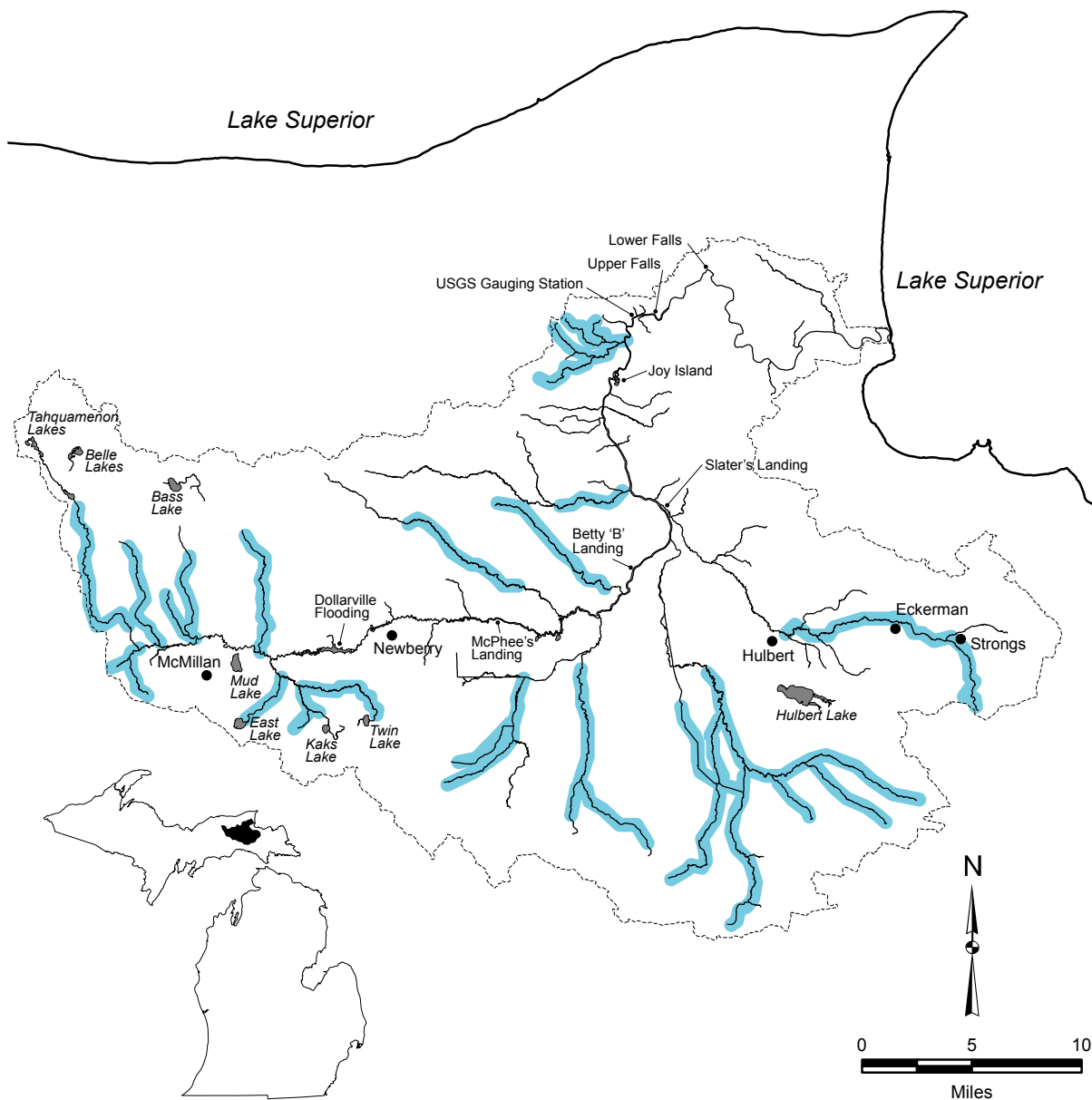


**Western blacknose dace *Rhinichthys obtusus***

**Habitat:**

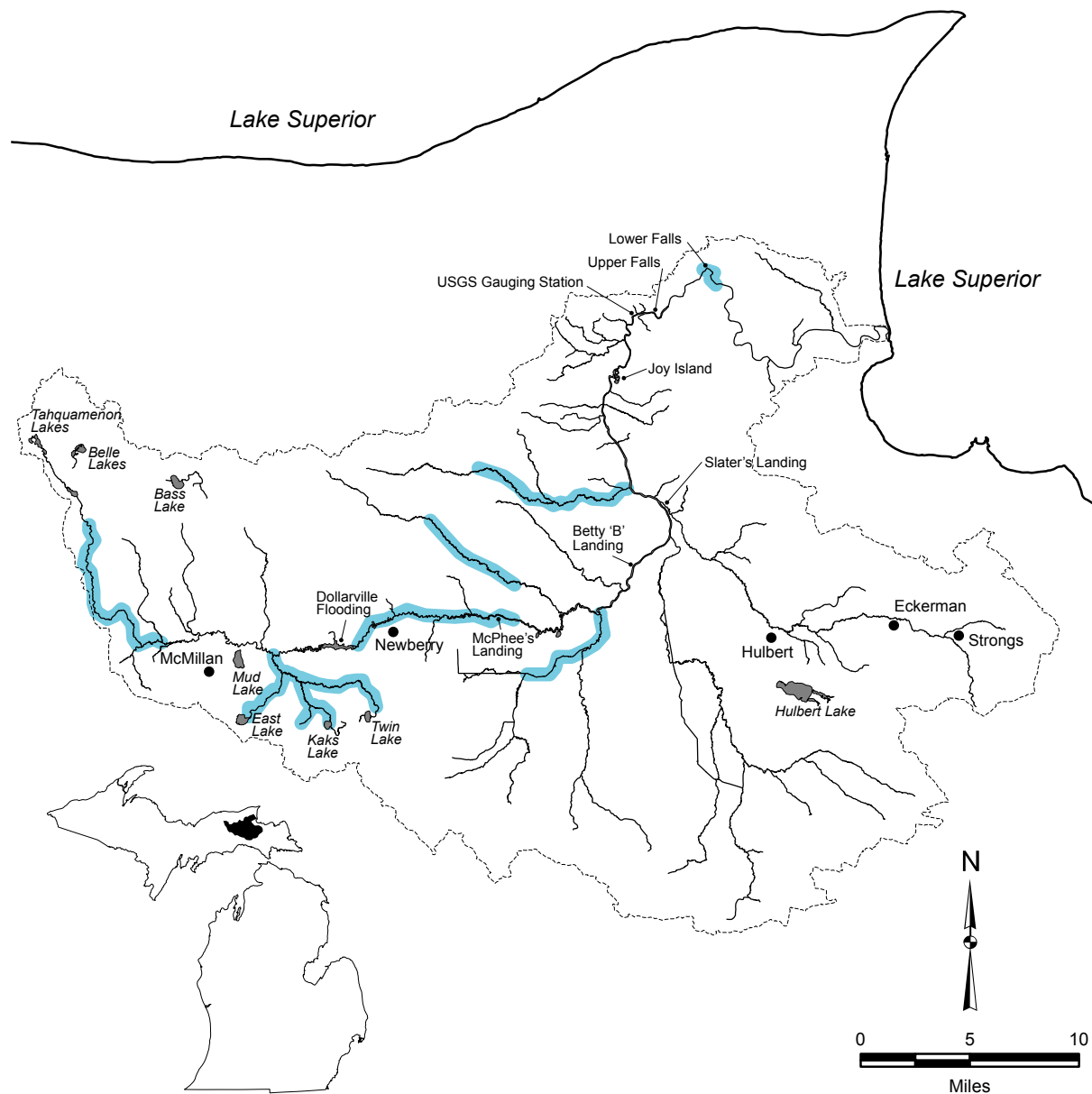
- feeding - moderate to high gradient streams
- sand and gravel substrate
- clear cool water in pools with deep holes and undercut banks
- does not tolerate turbidity and silt well
- spawning - riffles with gravel substrate and fast current
- winter refuge - larger waters



**Creek chub** *Semotilus atromaculatus*

**Habitat:**

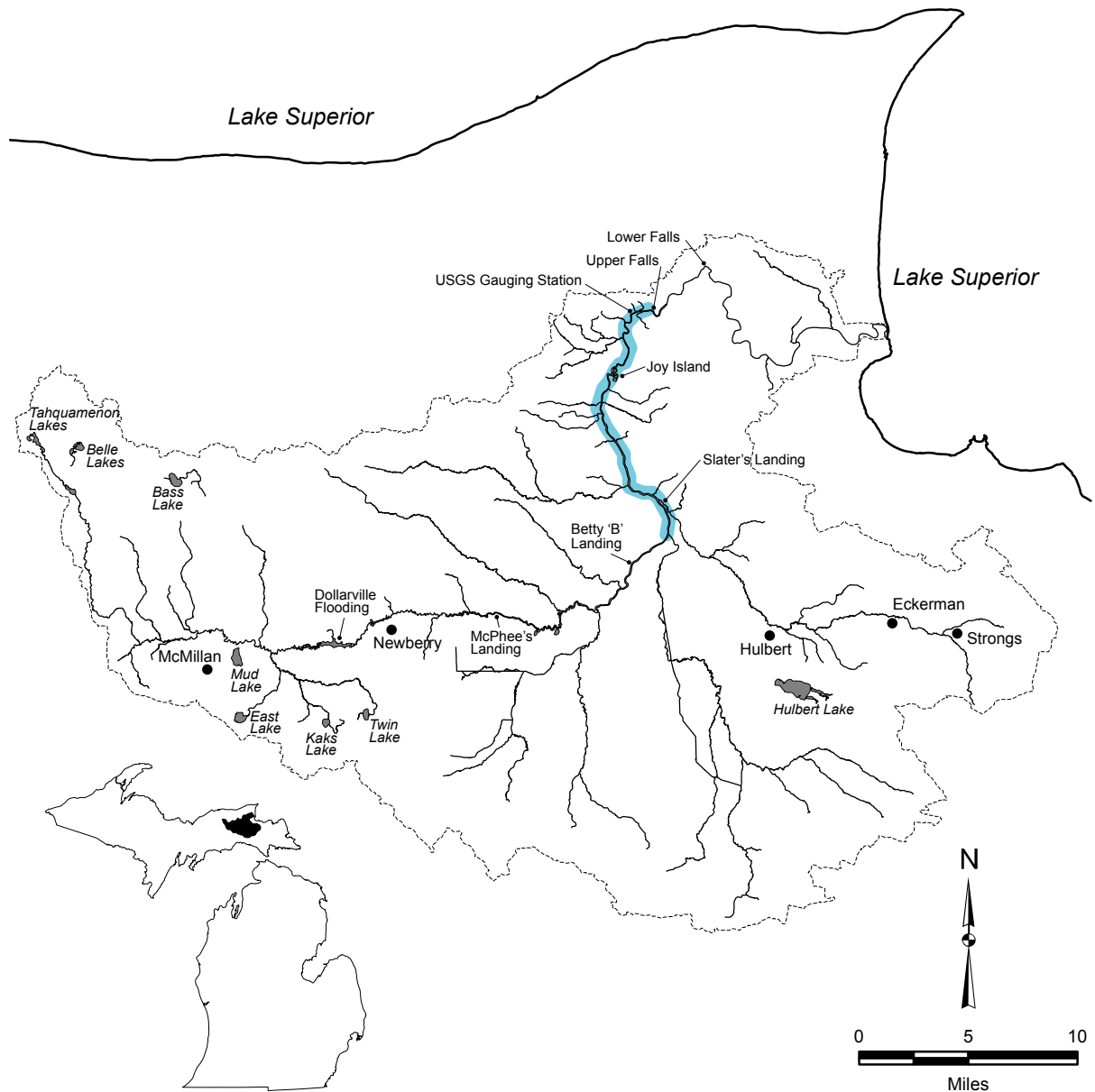
- feeding - streams, rivers, or shore waters of lakes and impoundments
- can tolerate intermittent flows
- tolerates moderate turbidity
- spawning - gravel nests
- low current
- winter refuge - deeper pools and runs



**Longnose sucker** *Catostomus catostomus*

**Habitat:**

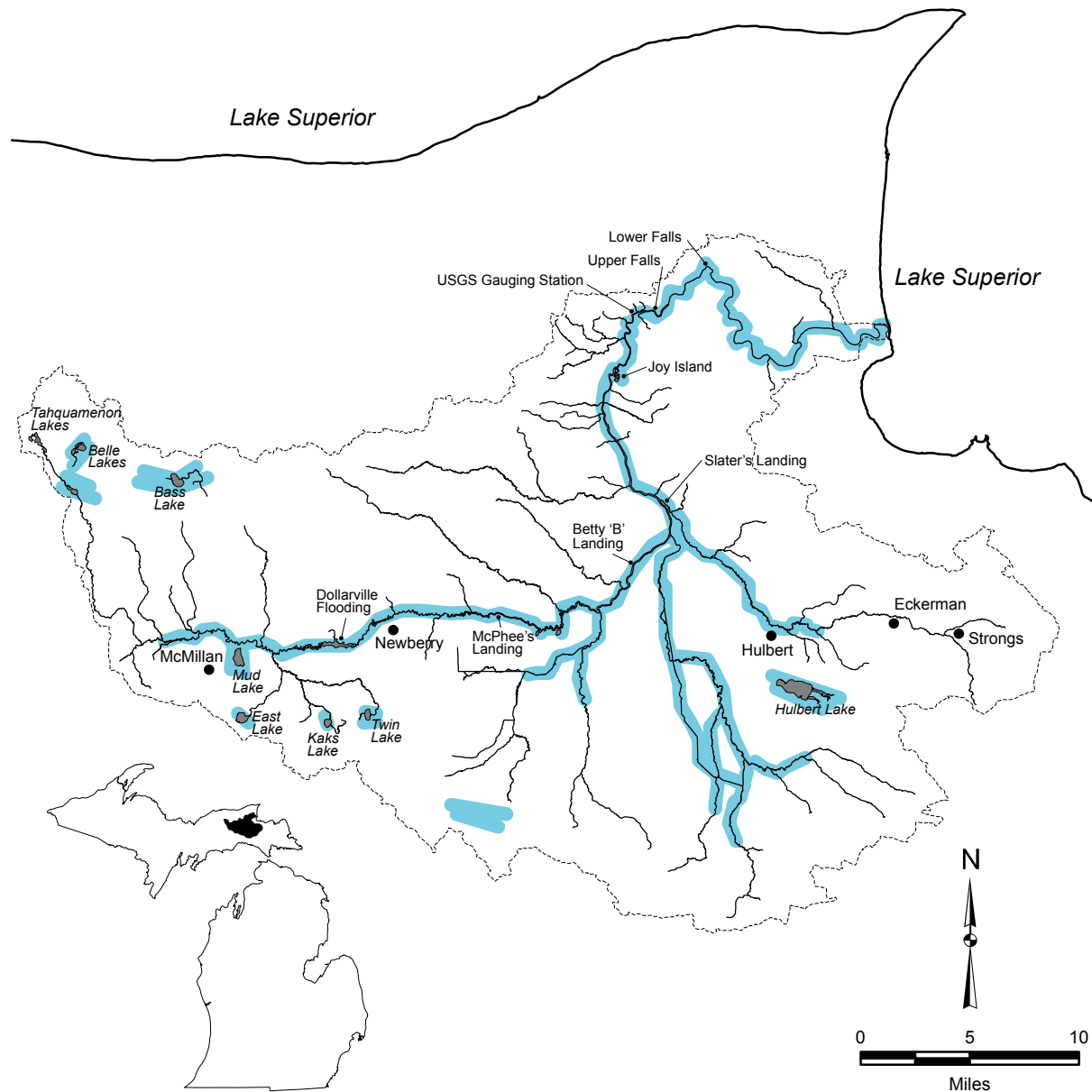
- feeding - clear, cold rivers and lakes
- spawning - in streams or lake shallows
  - current
  - gravel substrate



**White sucker** *Catostomus commersonii*

Habitat:

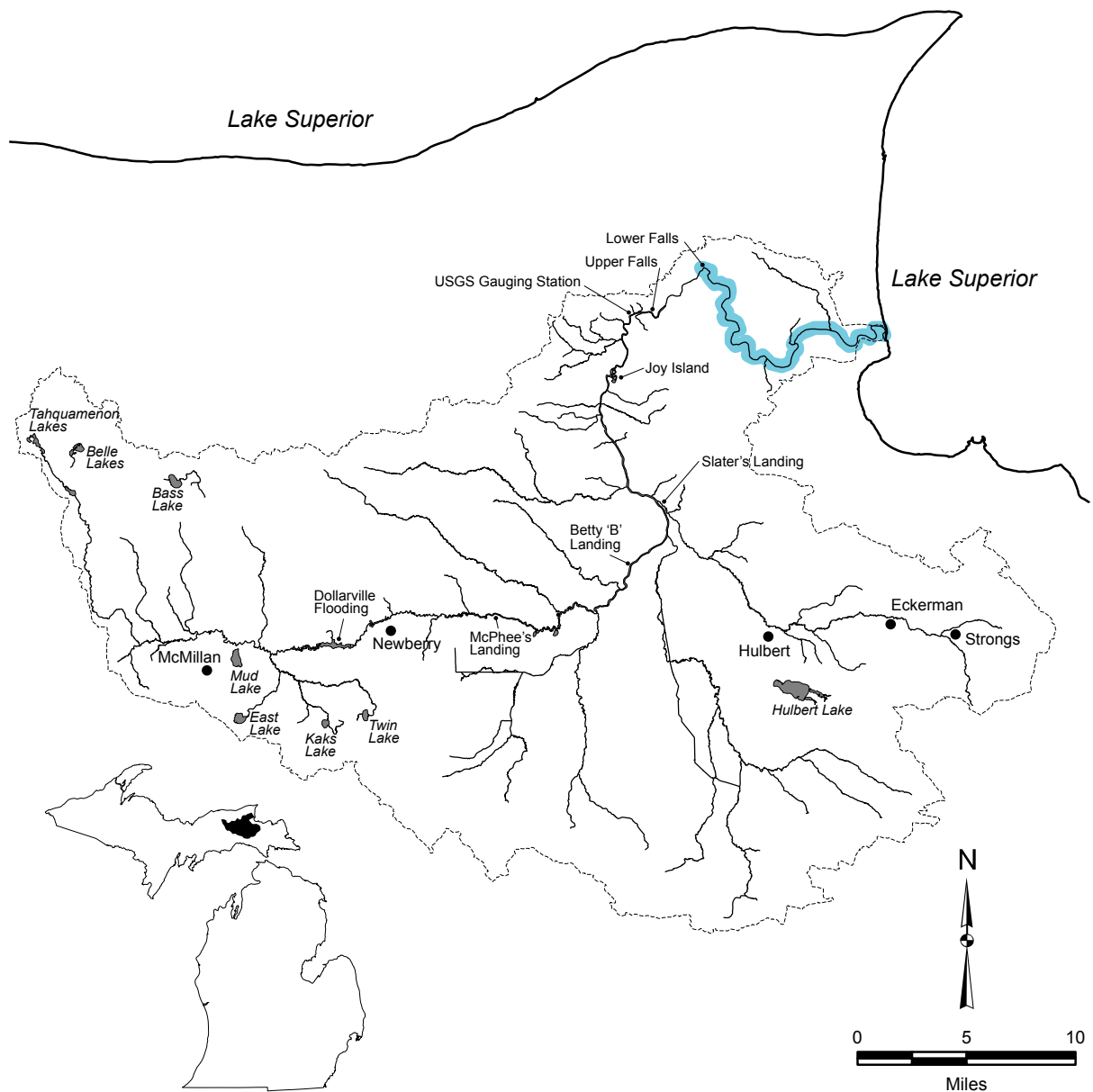
- feeding - streams, rivers, lakes, and impoundments
- can inhabit highly turbid and polluted waters
- spawning - quiet gravelly shallow areas of streams



**Silver redhorse** *Moxostoma anisurum*

Habitat:

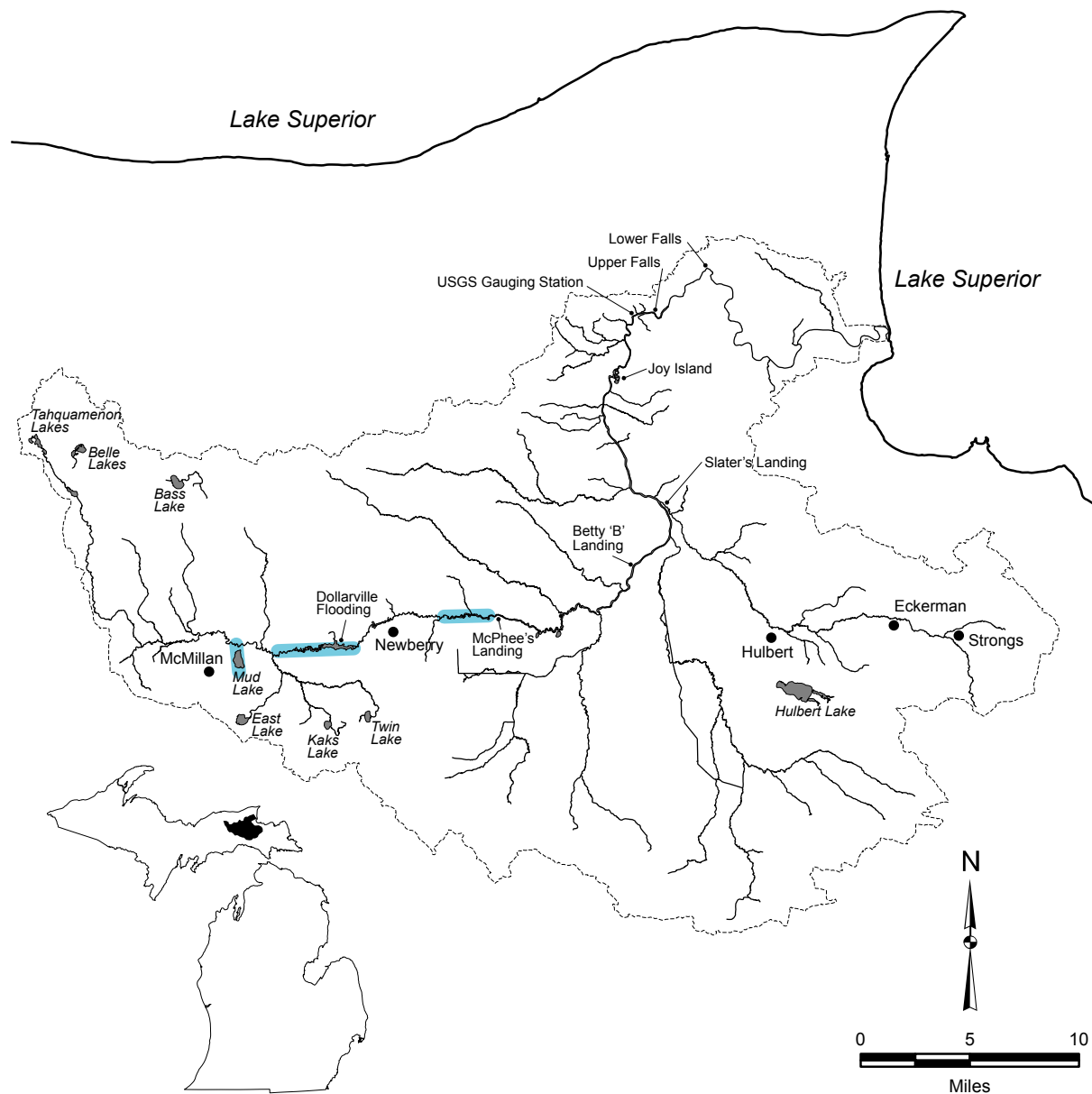
- feeding - streams, rivers, lakes, and impoundments
- low current
- pollution and turbidity intolerant
- spawning - swift current in rivers, do not spawn in tributaries
- males territorial
- gravel to rubble substrate



**Black bullhead** *Ameiurus melas*

Habitat:

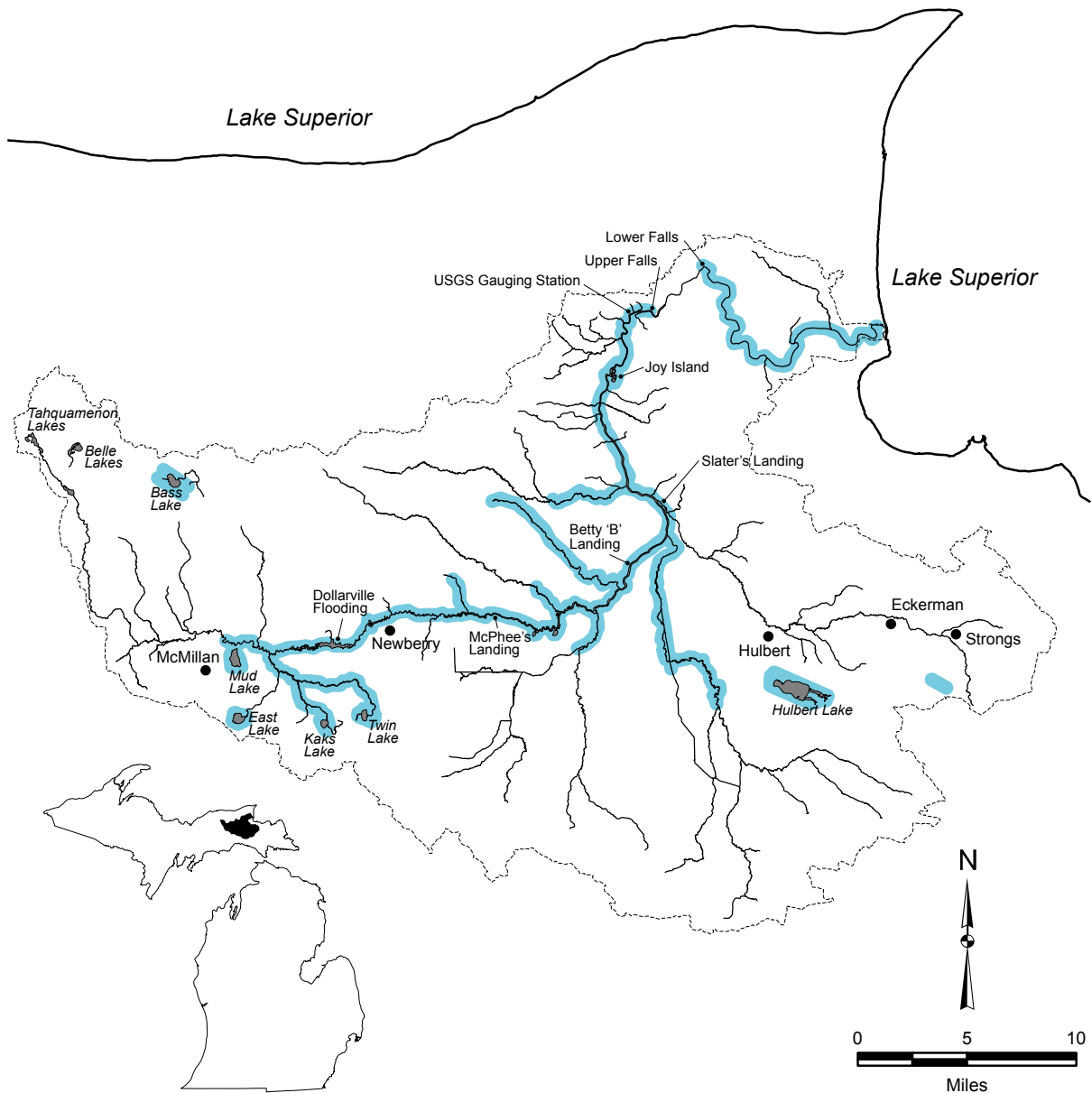
- feeding - turbid water
- silt bottom
- low gradient small to medium streams, pools, and headwaters of large rivers; also in lakes and impoundments
- can tolerate very warm water and very low dissolved oxygen
- spawning - nest in moderate to heavy vegetation or woody debris and under overhanging banks



**Brown bullhead** *Ameiurus nebulosus*

Habitat:

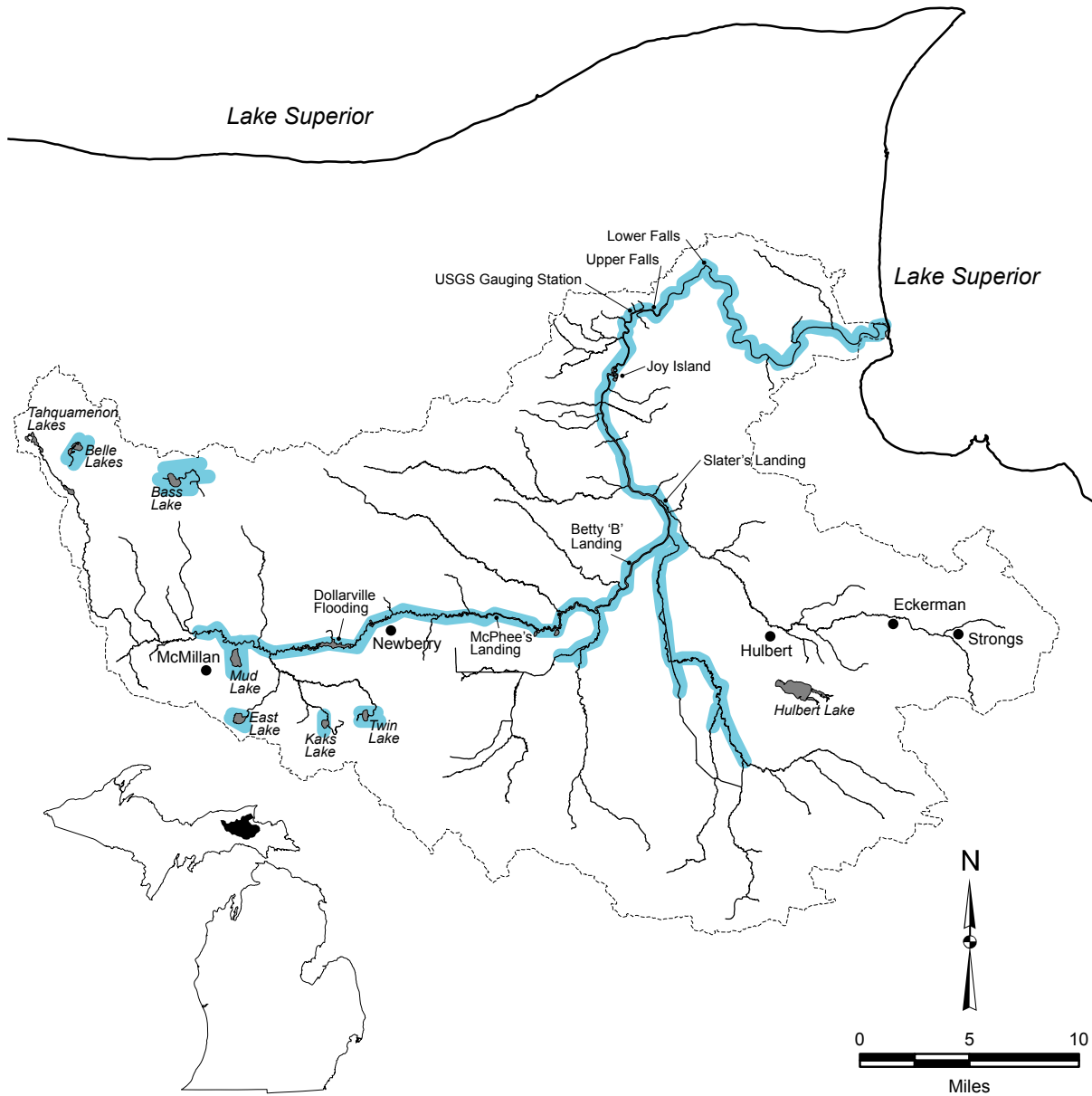
- feeding - larger streams and rivers, lakes and impoundments
- clear cool water with little clayey silt
- moderate amounts of aquatic vegetation
- sand, gravel, or muck substrate
- not tolerant of turbid water
- tolerant of warm water and low oxygen
- spawning - nest in mud or sand substrate among rooted aquatic vegetation  
usually near a stump, tree, or rock
- winter refuge - in muddy bottoms



**Northern pike** *Esox lucius*

Habitat:

- feeding - cool to moderately warm streams, rivers, lakes, and impoundments
  - vegetation in slow to moderate current
- spawning - submerged vegetation with slow current in shallow water

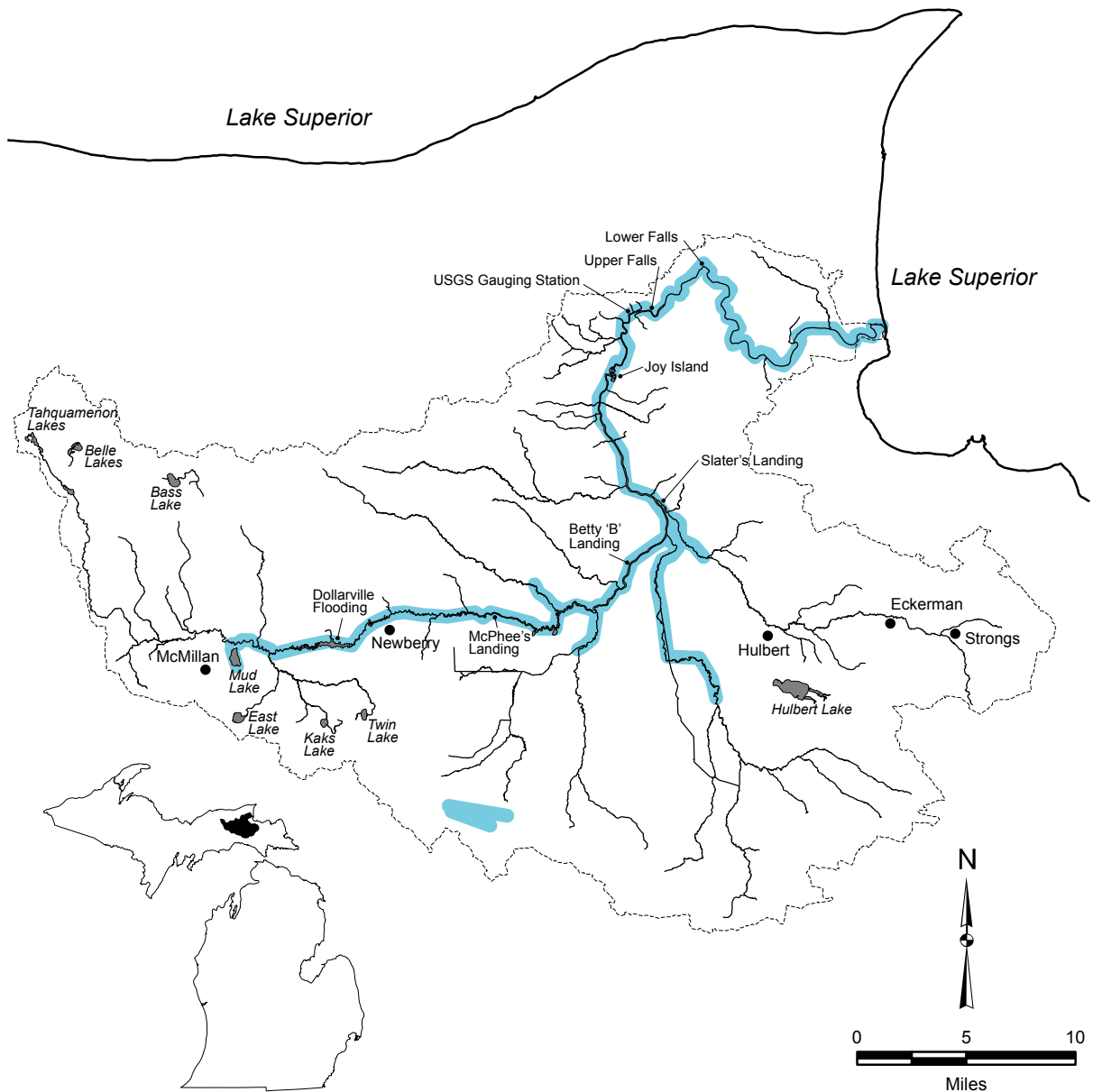




**Muskellunge** *Esox masquinongy*

Habitat:

- feeding - warm, heavily vegetated lakes, stumpy weedy bays, and slow heavily vegetated medium to large rivers
- shallow cool water
- tolerant of low oxygen
- spawning - clear shallow waters (15-20") in heavily vegetated areas



**Central mudminnow** *Umbra limi*

**Habitat:**

- feeding - undisturbed clear, low-gradient streams or rivers and lakes and impoundments
  - organic debris, muck, or peat substrates
  - aquatic vegetation
- spawning - floodplain areas, on vegetation

