

purple bean (*Villosa perpurpurea*), Cumberlandian combshell (*Epioblasma brevidens*), Cumberland elktoe (*Alasmidonta atropurpurea*), oyster mussel (*Epioblasma capsaeformis*), and rough rabbitsfoot (*Quadrula cylindrica strigillata*) are those habitat components that support feeding, sheltering, reproduction, and physical features for maintaining the natural processes that support these habitat components. The primary constituent elements include:

(A) Permanent, flowing stream reaches with a flow regime (*i.e.*, the

magnitude, frequency, duration, and seasonality of discharge over time) necessary for normal behavior, growth, and survival of all life stages of the five mussels and their host fish;

(B) Geomorphically stable stream and river channels and banks;

(C) Stable substrates consisting of mud, sand, gravel, and/or cobble/boulder, with low amounts of fine sediments or attached filamentous algae;

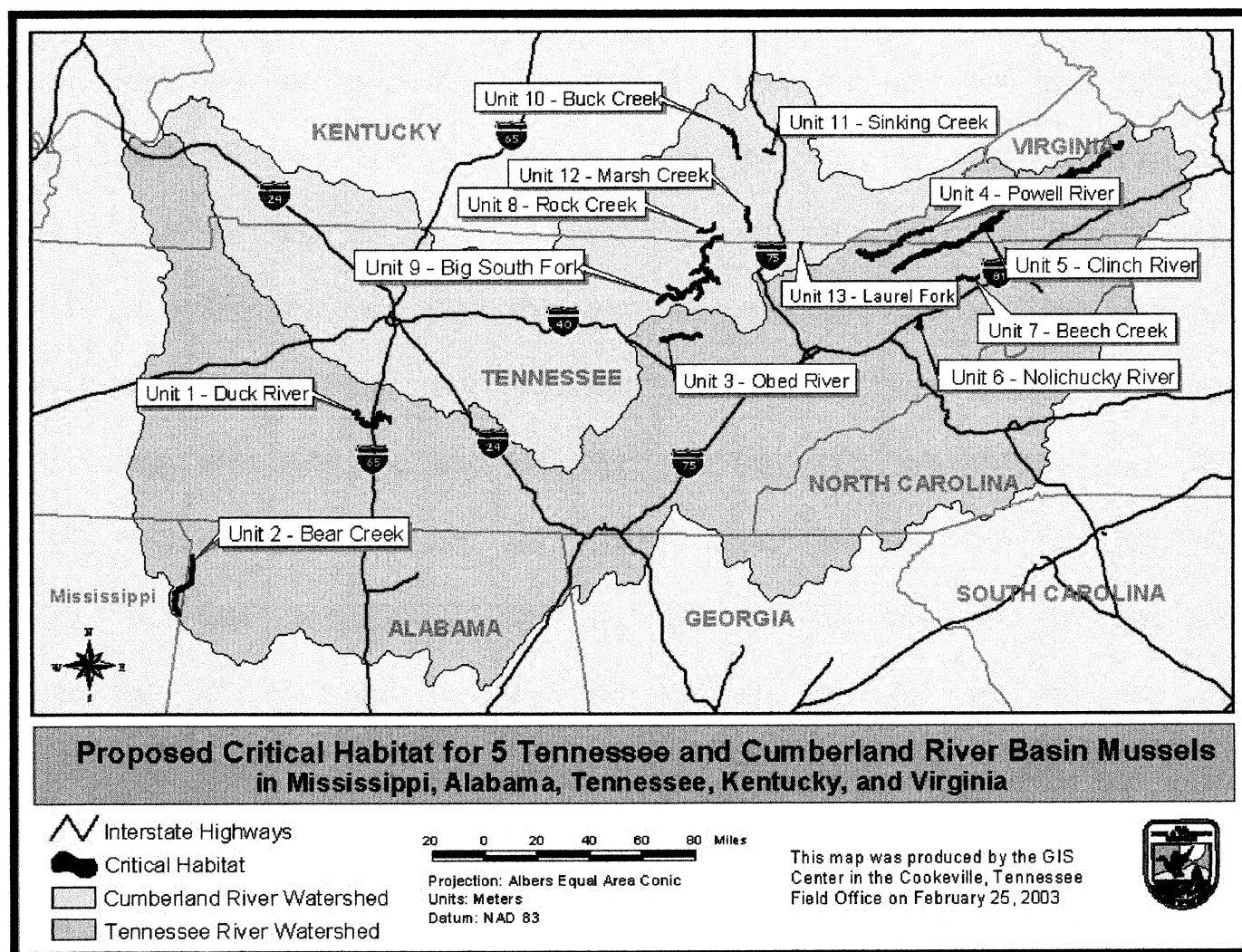
(D) Water quality (including temperature, turbidity, oxygen content, and other characteristics) necessary for

the normal behavior, growth, and survival of all life stages of the five mussels and their host fish; and
(E) Fish hosts with adequate living, foraging, and spawning areas.

(ii) [Reserved]

(2) Critical habitat unit descriptions and maps.

(i) Index map. The index map showing critical habitat units in the States of Mississippi, Alabama, Tennessee, Kentucky, and Virginia for the five Tennessee and Cumberland River Basin mussels follows:



(ii) Table of protected species and critical habitat units. A table listing the protected species, their respective

critical habitat units, and the States that contain those habitat units follows. Detailed critical habitat unit

descriptions and maps appear below the table.

TABLE OF FIVE TENNESSEE AND CUMBERLAND RIVER BASIN MUSSELS, THEIR CRITICAL HABITAT UNITS, AND STATES CONTAINING THOSE CRITICAL HABITAT UNITS

Species	Critical habitat units	States
Purple bean, (<i>Villosa perpurpurea</i>)	Units 3, 4, 5, 7	TN, VA.
Cumberlandian combshell, (<i>Epioblasma brevidens</i>)	Units 1, 2, 4, 5, 6, 9, 10	AL, KY, MS, TN, VA.