Era Tertiary

Core locations: Duckhall Point (DHP) and Point of Point (PP)

Contacts (approximately located in cross-section)

Sand and gravel deposits

Lithology

Upper Chesapeake Group

eroded contact is punctuated by burrows that penetrate the underlying Eastover Formation. The burrows are filled with unweathered, strata are light- to dark-gray or bluish-gray. Base of Yorktown Formation is generally marked by a 0.1- to gravel (Pliocene on the adjacent Fredericksburg 30' X 60' quadrangle: Mixon et al, 2000). The Pliocene upland gravel was channel deposits. The upper fluvial beds are probably co-extensive with the upland gravel deposits mapped as sand and deposited as sea level fell. This unit is part of the upper Chesapeake Group map unit.

underlying the highest topography of the Popes Creek watershed divide, the regressive Yorktown Formation facies - possibly Chowan River/Coharie Formation equivalent fluvial regressive facies (late Pliocene)

terrace deposits underlie relict land surfaces that range in altitude from 47 to 53 m (154-174 ft). This unit is part of the

Upward-fining fluvial sequence includes medium to coarse gravelly sand and sandy gravel, poorly sorted, thick to very (late Pliocene)
The unit in the map area may be as much as 15 m (50 feet.) This unit is part of the middle Chesapeake Group map unit.

small bivalve compressirostra

silt: thick-to very thick bedded or massive; unit is medium to dark-olive-gray, grayish-olive, and dark-greenish-gray;

Chiefly fine to very fine quartzose sand, variably silty and clayey, inter-bedded with diatomaceous silty clay and clayey

marine mollusks. Map unit includes several sand-silt-clay sequences ranging in thickness from 2 to 12m (7-39 ft). Each sequence consists of (1) a basal, very poorly sorted, very fine to coarse sand that commonly contains scattered pebbles vertebrates; grades upward to (2) clay and silt containing poorly to well-preserved diatom floras, silicoflagellates, and commonly filled with deep root mats. Topmost cyclic sequences may be coextensive with upper zones of Choptank

Nanejemoy Formation

lower Chesapeake Group map unit.