



EXPLANATION

-  Mine-dump spoil
-  Artificial fill
-  Terrace deposits along Goose Creek  
Sand, mostly fine, pale brown or yellow, loose, massive; includes medium-grained sand upstream; maximum thickness about 4 feet
-  Pamlico formation  
Sand in well-drained part, loose, massive, fine, yellow; sand in poorly drained part, firm, crossbedded, fine, brown. Thickness 7 feet +
-  Sand on Tenmile Hill  
Sand, fine, pale-yellow, loose, massive; thickness decreases inland from a maximum of 12 feet on Tenmile Hill
- UNCONFORMITY**
-  Ladson formation  
Sand and clay, evenly bedded coarse-grained or conglomeratic at the base; as much as 33 feet thick. The members shown from top to bottom are: Qlc, coarse-sand member, slightly clayey coarse sand; Qlm, medium-sand member, medium-grained sand with laminae of clay, possibly unconformable on the lower members; Qlf, fine-sand member, fine sand interbedded with clay; Qlp, phosphate member, phosphate gravel interbedded with coarse and fine sand and clay. Below 15 feet altitude the gravel contains cobbles of phosphate rock
- UNCONFORMITY**
-  Cooper marl  
Marl consisting of fine-grained carbonates (25-75 percent), sand (10-45 percent), clay (2-5 percent), grains of phosphate (5-20 percent), and water (15-25 percent); shells of Foraminifera abundant; locally glauconitic; consolidated but not indurated; massive; olive-colored; about 200 feet thick
- Contact**  
Dashed where approximately located;  
dotted where concealed
-  Borrow pits
-  Auger hole

Upper Pleistocene

Lower Pleistocene

Oligocene

QUATERNARY

TERTIARY

Base from U. S. Geological Survey Ladson quadrangle  
ANDREWS 1.7 MI.  
COWEN HILL 1.8 MI.  
INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1958  
MR 5838  
Geology by H. Malde, 1953-54

GEOLOGIC MAP OF THE LADSON QUADRANGLE, SOUTH CAROLINA

