

At milepost 72, 22 miles above Kinston, left bank, the following forms were obtained in a low exposure: *Leda* sp., *Nemodon*?, *Arca* sp., *Cymella bella* Conrad, *Lunatia*?, *Anchura*?, *Otodus appendiculatus* Agassiz. (U. S. G. S. Loc. No. 4138.) From this point to milepost 60 there are occasional low exposures of greensand or dark marine clay, the latter in places containing soft casts of shells, and both the sand and clay in places contain poorly preserved fossil shells.

At 62½ miles above New Bern (12½ miles above Kinston), left bank, the following forms were obtained: *Cymella bella* Conrad, *Cras-satellites carolinensis* Conrad, and *Corbula* sp.? (U. S. G. S. Loc. No. 4135.)

At Whiteley Creek Landing, milepost 60, the river bank presents a section about ⅓ mile in length which is essentially the same in character throughout and which may be represented by the following general section:

SECTION AT WHITELEY CREEK LANDING, MILEPOST 60, RIGHT BANK.

Pleistocene:

FEET.

Yellow sandy clay loam, grading down into coarse sand with a thin band of gravel along base..... 6-10

(Unconformity.)

Cretaceous (Black Creek formation):

Dark greenish-gray, rather coarse, glauconitic sand, with several more or less discontinuous indurated layers between top and bottom. Very fossiliferous, the fossils being soft except in the indurated layers 8-10

The contained fauna, which is listed below, indicates that this horizon occupies a position very close to the dividing line between the Black Creek and Peedee formations. The absence, however, of such forms as *Ostrea larva* Lamarck, the typical form of *O. subspatulata* Forbes, and *Belemnitella americana* Morton, points to its being somewhat older than the typical Peedee formation, and it is therefore tentatively referred to the upper part of the Black Creek formation.

U. S. G. S. LOCALITY Nos. 4136 AND 5354—NEUSE RIVER, WHITELEY CREEK LANDING, N. C., 60 MILES ABOVE NEW BERN, N. C. (EXPOSURE EXTENDS ⅓ MILE ABOVE LANDING.)

<i>Stephanophyllia</i> sp. (near <i>S. bowerbankii</i> M. E. & H. Iden. by T. W. Vaughan.)	<i>Ostrea subspatulata</i> Forbes?
<i>Serpula cretacea</i> (Conrad).	<i>Ostrea plumosa</i> Morton.
<i>Cucullaea antrosa</i> Morton.	<i>Ostrea</i> n. sp. (same as at Blue Banks Landing, N. C.).
<i>Nemodon brevifrons</i> Conrad.	<i>Ostrea</i> n. sp.
<i>Arca rostellata</i> Morton?	<i>Exogyra</i> sp.
<i>Glycymeris subaustralis</i> (d'Orbigny).	<i>Trigonia</i> n. sp. (probably same as at Snow Hill, N. C.).
<i>Perna</i> n. sp.	<i>Pecten</i> n. sp.