

PLEISTOCENE AND MIOCENE SECTION AT PALMYRA, ROANOKE RIVER.

Pleistocene:

	FEET.
Surface clay loam, grading downward into a buff to yellow sandy clay	7
Loose interbedded white and yellow cross-bedded sands, containing numerous clay laminae toward base in certain parts of the section	12
Compact drab clay, containing fragmental plant remains.....	3
Gravel layer with occasional cobbles 6 inches in diameter.....	1½

Miocene (St. Marys) :

Fine, loose white, gray, buff, and greenish-gray sands, blotched with iron stains.....	33
Blue argillaceous sand.....	2½
Blue argillaceous sand filled with fossil shells and containing many bones, especially near the base.....	7

Cretaceous:

Blue argillaceous sand without fossils.....	2
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FOSSILS FROM PALMYRA BLUFF.

CRUSTACEA :

Balanus concavus Bronn.*Chione cribraria* Conrad.

GASTROPODA :

Calliostoma philanthropus Conrad.*Corbula cuneata* Say.*Calliostoma ruffini* H. C. Lea.*Corbula inaequalis* Say.*Crepidula aculeata* Gmelin.*Crassatellites lunulatus* Conrad.var. *costata* Morton.*Crassatellites undulatus* Say.*Crepidula fornicata* Say.*Diplodonta subvexa* Conrad.*Crepidula* sp.*Dosinia acetabulum* Conrad.*Crucibulum constrictum* Conrad.*Ensis directus* Conrad.*Ecphora quadricostata* Say.*Ensis ensiformis* Conrad.*Fossarus lyra* Conrad.*Gemma magna* Dall.*Lirosoma sulcosa* Conrad.*Gemma trigona* Dall.*Polynices heros* Say.*Glycymeris americana* de France.*Aurinia mutabilis* Conrad.*Glycymeris subovata* Say.*Turritella variabilis* Conrad.*Leda acuta* Conrad.*Vermetus graniferus* Say.*Macrocallista albaria* Say.

SCAPHOPODA :

Cadulus thallus Conrad.*Mulinia congesta* Conrad.*Dentalium attenuatum* Conrad.*Nucula proxima* Say.

PELECYPODA :

Asaphis centenaria Conrad.*Ostrea compressirostra* Say.*Astarte exaltata* Conrad.*Ostrea sculpturata* Conrad.*Astarte symmetrica* Conrad.*Panopea reflexa* Say.*Astarte undulata* Say.*Pecten eboreus* Conrad.*Astarte vicina* Say.*Pecten jeffersonius* Say.*Callocardia sayana* Conrad.*Pecten jeffersonius* var. *edgecombensis* Conrad.*Cardium laqueatum* Conrad.*Pecten madisonius* Say.*Cardium virginianum* Conrad.*Pecten jeffersonius* var. *septenarius* Say.*Chama congregata* Conrad.*Petricola carolinensis* Conrad.*Phacoides anodonta* Say.*Phacoides crenulatus* Conrad.