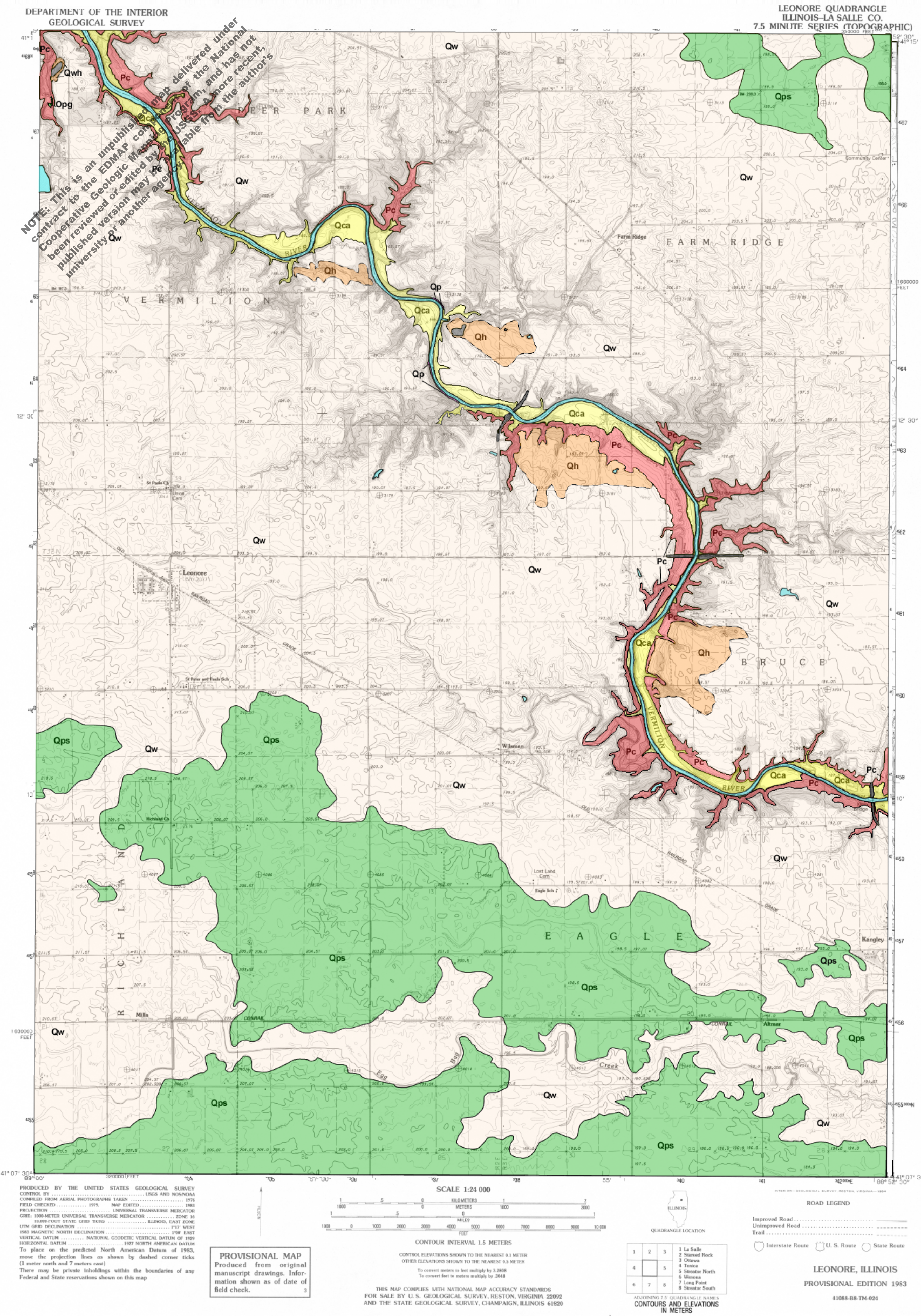


Surficial Geologic Map of the Leonore Quadrangle, LaSalle County, Illinois

Bryce Willems, 2003



Material

dark gray to black stratified silt, sand, and some gravel

yellow-tan silt > 1.5m

stratified coarse sand and gravel

gray diamicton (silty clay loam matrix), weathers to a brown-tan color

tan to gray-tan fine to coarse grained sand

alternating sandstone, shale, coal, limestone

massive gray fine-grained fossiliferous limestone and dolomite

Lithostratigraphic Units and Interpretations

Holocene Series

Qca Cahokia Alluvium: Forms terraces inside of meanders and at the mouth of tributaries. (modern stream deposits) Thickness: 0-6m

Pleistocene Series

Wisconsinian Stage

Qps Mason Group Peoria Silt: Covers majority of mapping area, only mapped where greater than 1.5m. (eolian deposits) Thickness: 0-6m.

Qh Henry Formation: Mined Locally. (outwash) Thickness: 0-11m.

Qw Wedron Group Lemont/Tiskilwa Formations undifferentiated: Lemont occurs throughout entire area, Tiskilwa Formation may occur within Ticona Channel. (till, ice contact) Thickness: 0-40m.

Illinoian Stage

Qp Pearl Formation: Exposed where Vermillion River dissects the Ticona Channel near center of quadrangle. (outwash) Thickness: 0-5m (base at depth).

Paleozoic Series

Pennsylvanian System

Pc Carbondale Formation (red): Major cliff former in places along Vermillion River and its tributaries. (cyclic deltaic environment) Thickness: 0-21m.

Champlainian Series

Opg Platteville-Galena Group undifferentiated (light green): Top exposed in northern-western most tributary. (shallow marine environment) Thickness: 0-1.5m (base at depth).

Water: lakes and rivers

Disturbed Areas: areas that have been mined or modified

Geologic Contact

Approximate Contact

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