

# SURFICIAL GEOLOGY OF THE HOPEWELL JUNCTION 7.5-MINUTE QUADRANGLE, DUTCHESS AND PUTNAM COUNTIES, NEW YORK

G. Gordon Connally 2021

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Supported in part by the U.S Geological Survey Cooperative Agreement number 07HQAG0073 as part of the National Cooperative Geologic Mapping Program (STATEMAP)

#### DESCRIPTION OF MAP UNITS

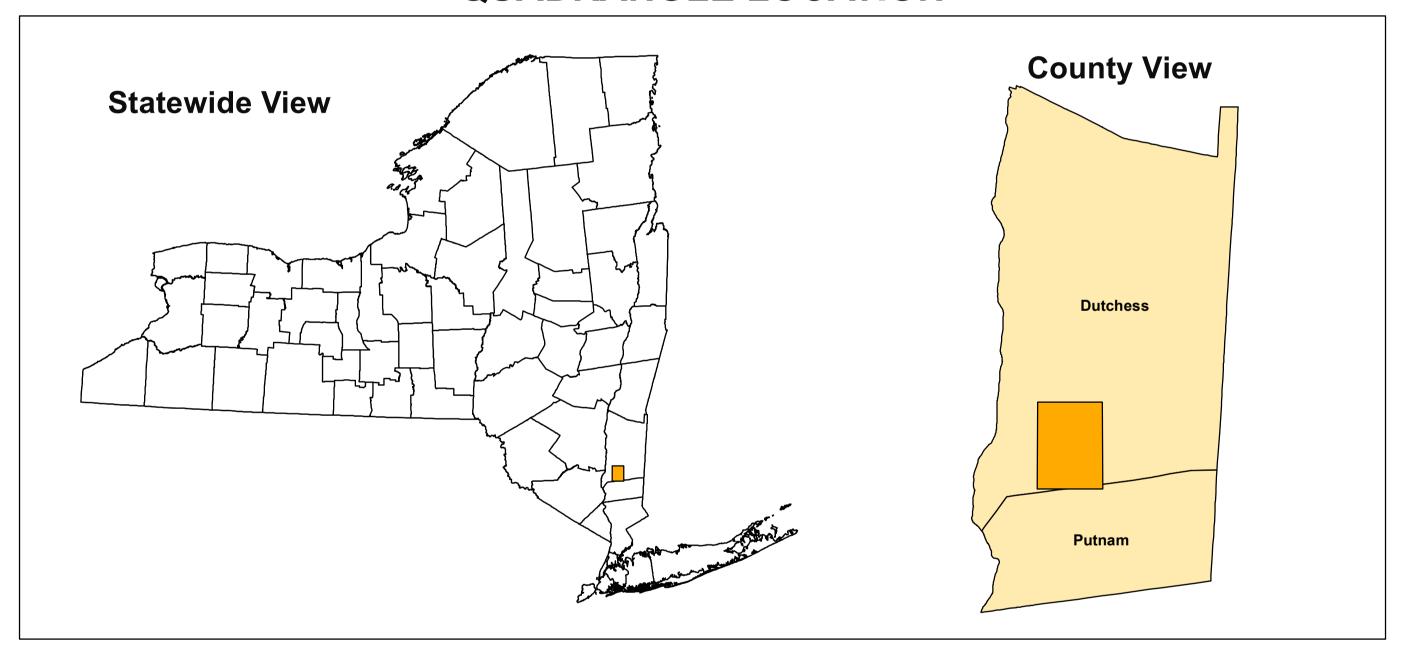
Holocene	
Af	Artifical Fill (Af) Surficial sediment composed of coarse/fine and or crushed rock anthropogenically transported and used for construction purposes.
На	Stratified silt, sand and gravel (Ha) Sorted and stratified silt, sand, and gravel, deposited by rivers and streams. May include cobbles and boulders. Inferred as post-glacial alluvium and includes modern channel, over-bank and fan deposits
Hw	Wetland Deposit (Hw) Peat, muck, marl, silt, clay or sand deposited in association with wetland environments. Various sediments can be present at transitional boundaries from one facies to another
Pleistocene	
Plsc	Silt and Clay (Psc) Stratified, fine-grained sediment consisting of fine sand, silt and clay size particles. Inferred to be deposited in mid shore to deepwater settings of glacial lakes. May include marl, rythmites, and varves.
Pics	Cobbles to Sand (Pics) Stratified ice contacted deposits, variable coarse-grained sediment consisting of boulders to sand size particles. Inferred to be deposited along an ice-margin. May include, interbedded coarse lenses of gravel and clast supported diamictons (flow tills).
Psg	Stratified sand and gravel (Psg) Well-sorted and stratified sand and gravel. May include cobbles and boulders. Inferred to be delta, fan or lag deposits in glacial channels or near former ice margins.

#### **Pre-Pleistocene**

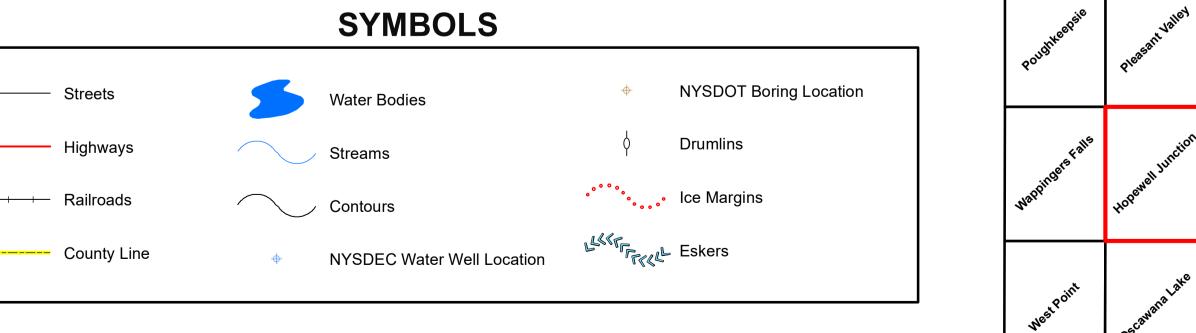
Bedrock (Br) Non-glacially derived, hard rock, pre-pleistocene in age. May be covered up to a meter in diamicton, sand and gravel, or sand and clay in areas marked as Br.

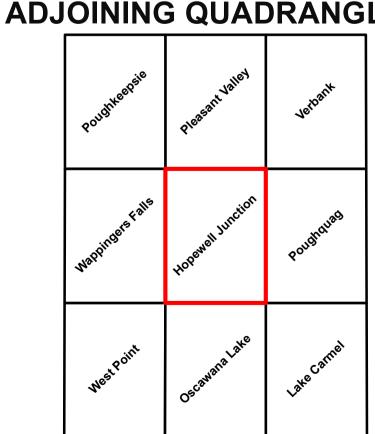
An admixture of unsorted sediment ranging from clay to boulders. Generally matrix supported, massive and clast-rich.

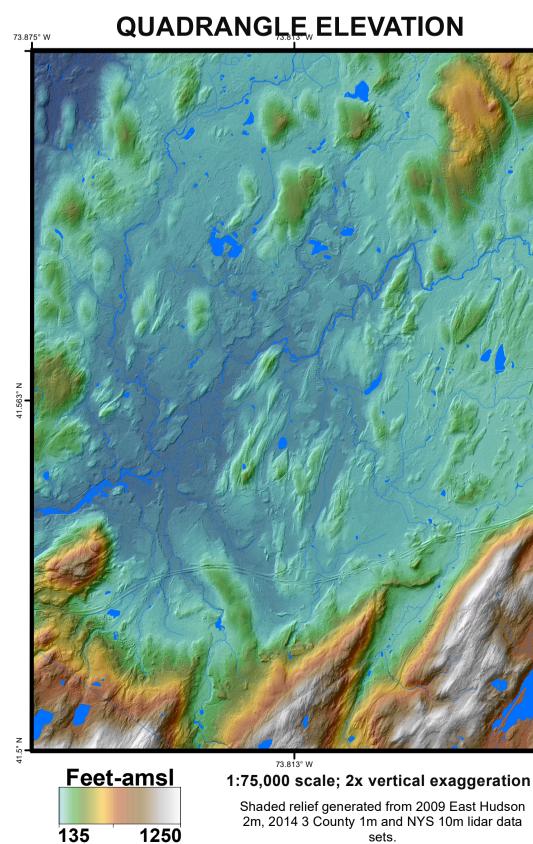
### **QUADRANGLE LOCATION**



#### **ADJOINING QUADRANGLES**







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New York State Museum Map & Chart No. 152 ISSN:0097-3793 ; ISBN:978-1-55557-311-9