INTRODUCTION:
The Troy South quadrangle is one of eighteen partial and full quadrangles mapped as part of the Albany County Surficial Geologic mapping project. The final surficial geology maps, cross-section and elevation maps were produced using the ESRI ArcMap and Adobe Illustrator CS6 programs. The subsurface geologic mapping was compiled using a combination of field observations, exploratory borings, and data compiled by the New York State Museum. The Troy South quadrangle is located in the Hudson-Mohawk River valley of eastern New York State and is one of the long North-South running ridges cut into by small tributary creeks. The quadrangle is highly deformed, fractured, and folded with some horizontal to vertical and angled beds. According to the Hudson-Mohawk sheet of the geological map of New York State, the bedrock in the quadrangle is comprised of the Austin Glen formation, Taconic Mélange and Normanskill shale. The Austin Glen formation constituting the highlands is comprised of interbedded shale, sandstone, and conglomerate that are stratified with some horizontal to vertical and angled beds.

SUMMARY AND CONCLUSIONS:
This unit is generally composed of coarse/fine, large cement mounds and/or crushed rock anthropogenically transported and used for construction purposes. Post glacial sediments occupy the low areas or land depressions throughout the quadrangle. This area is associated with fluvial process in creek valleys and on the floodplains of the Hudson River. The floodplains are comprised ofHolocene Alluvium (Ha) and Holocene Wetland Deposits (Hw). Post glacial sediments are comprised of continental deposits that are overlying the alluvial plain. Holocene Alluvium (Ha) and Holocene Wetland Deposits (Hw) are Holocene deposits that are comprised of continental deposits that are overlying the alluvial plain. Holocene Alluvium (Ha) and Holocene Wetland Deposits (Hw) are Holocene deposits that are comprised of continental deposits that are overlying the alluvial plain.

RESULTS:
Glacial landforms found within this quadrangle reflect both proximal and distal deposition as drumlins are formed beneath a glacial ice sheet but the >20-foot-thick deposits of glacial till are the result of distal deposition near former ice margins. Glacial landforms found within this quadrangle reflect both proximal and distal deposition as drumlins are formed beneath a glacial ice sheet but the >20-foot-thick deposits of glacial till are the result of distal deposition near former ice margins. Glacial landforms found within this quadrangle reflect both proximal and distal deposition as drumlins are formed beneath a glacial ice sheet but the >20-foot-thick deposits of glacial till are the result of distal deposition near former ice margins. Glacial landforms found within this quadrangle reflect both proximal and distal deposition as drumlins are formed beneath a glacial ice sheet but the >20-foot-thick deposits of glacial till are the result of distal deposition near former ice margins.

SYMBOLS
- Crook
- Highway
- River
- HVS5 II Sample Location
- HVS5 Wetland Vegetation
- HVS5 II Wetland Location
- Contours
- Corrections
- Counties

QUADRANGLE LOCATION

ADJOINING QUADRANGLES

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