SURFICIAL MATERIALS

GLACIAL AND POSTGLACIAL DEPOSITS

**Coarse Deposits**
- Gravel
- Sand
- Silt
- Clays

**Stacked Deposits**
- Stacked Coarse Deposits
- Stacked Fine Deposits

**Meltwater Deposits**
- Glacial Ice-Laid deposits
- Glacial Meltwater deposits

**Artificial Fill**
- Stacked Coarse Deposits
- Stacked Fine Deposits

**Unconsolidated deposits**
- Alluvium
- Beach deposits
- Talus

**Clay**
- Clay
- Fine Clays

**Sand**
- Sand
- Fine Sands
- Coarse Sands

**Gravel**
- Gravel
- Fine Gravels
- Coarse Gravels

**Other**
- Alluvium
- Artificial Fill
- Stacked Fine Deposits Overlying Coarse Deposits
- Artificial Fill overlying any of the Coarse deposits (g, sg, s)

**EXPLANATION**

Unconsolidated glacial and postglacial deposits, that range from fine silt to several hundred feet in thickness, overlie the bedrock surface of Connecticut (see Block Diagram). This mapping portrays areal extent and subsurface grain-size (textural) distributions of fines and coarse deposits. The map legend is designed to highlight the areal extent and subsurface grain-size (textural) distributions and character of the materials portrayed. Most of Connecticut’s surficial material is glacially derived, and can be divided into two broad depositional categories: Glacial Ice-Laid deposits and Meltwater deposits, which are generally exposed at the surface, and are the most widespread surficial deposit in Connecticut. Glacial Meltwater deposits (silt and sand) are deposited during periods of glacial advance. Mapping emphasis is placed on surficial meltwater deposits because their distribution and character have historically influenced development patterns throughout the state.

For a complete description of surficial materials map units, and further information concerning their lithology and extent of occurrence, please refer to the published Surficial Materials Map of Connecticut and the companion Quaternary Geologic Map of Connecticut and the Long Island Sound Basin (two Data bases).

**DATA SOURCES**

Surficial Materials Data - Surficial Materials shown on this map are from the Surficial Materials Polygons dataset, which contains areal extent and areal grain-size (textural) distribution data of surficial materials published by the Department of Environmental Protection, in cooperation with the U.S. Geological Survey. These data were digitized from the 1:24,000-scale completion sheets prepared for the Connecticut Surficial Materials Map of Connecticut and the Long Island Sound Basin (two Data bases).

Base Map Data - Based on data originally from 1:24,000-scale U.S. Geological Survey topographic quadrangles for the State of Connecticut, published in 1937 and 1938, the Connecticut Department of Environmental Protection, in cooperation with the U.S. Geological Survey. These data were digitized from the 1:24,000-scale completion sheets prepared for the Connecticut Surficial Materials Map of Connecticut and the Long Island Sound Basin (two Data bases).

Quaternary Geologic and Surficial Materials Data (QUC - 1:24,000-scale digital spatial data of Surficial Materials, bedrock, and Quaternary geology) is available from the Connecticut Geological and Natural History Survey, USGS, and others are also available from CT DEP.

Maps and Digital Data - Go to the CT DEP website for this map and a variety of others. Go to the CT DEP website for the digital spatial data derived from this map.