



- EXPLANATION:**
- Town Boundary
 - Pumping Station
 - Study Area Boundary
 - Line of Geologic Cross Section
- HOLOCENE**
- Alluvium
Recent stream deposits; silt, sand, and gravel.
 - Swamp Deposits
Peat, organic muck, silt, sand, and clay.
 - Dune Sand
Well sorted, medium to fine sand.
 - Artificial Fill
- Bottom Deposits Of Lakes Hitchcock And Manhan**
- Beach Deposits
Well sorted sand and gravel.
 - Lake Sand Deposits
Laminated sand and silt includes proximal and distal bottomset beds of delta.
 - Lake Clay Deposits
Alternating thin silt layers and clay layers.
- PLEISTOCENE**
- Terrace Deposits
Silt, sand, and gravel.
- Glacial Stream and Lake Deposits West Of Holyoke Basalt Ridge**
- Stratified Drift**
- Deltaic, Lacustrine, and Ice-contact Deposits;
Fine to coarse sand and pebbles.
 - Deltaic, Lacustrine, and Ice-contact Deposits;
Clay, silt, sand, pebbles, and cobbles.
 - Deltaic, Lacustrine, and Ice-contact Deposits;
Medium to coarse sand, pebbles, and cobbles; includes minor amounts of clay, silt, and flowtill.
- WISCONSINAN**
- Undivided and Unassigned Ice-contact Deposits
Silt, sand, and gravel; displays collapse bedding.
 - Till
Compact to loose, nonsorted to poorly sorted, nonstratified mixture of clay, silt, sand, pebbles, cobbles and boulders.
 - Bedrock**
Undifferentiated Triassic
Sedimentary and igneous rocks. Sedimentary rocks consist of arkosic siltstone, sandstone, and conglomerates. Igneous rocks consist of basalt, tuff, agglomerate, and volcanic, and volcanic sandstone.

NOTES:

Eolian Mantle
A layer of windblown sand or silt, mixed with the underlying glacial deposits, is present over much of the area but has not been mapped. The mantle is best developed overlying higher, older deposits, and is generally missing over lower, younger deposits.

REFERENCES:

Larsen, F.D., 1972, Surficial Geology Of The Mount Tom Quadrangle, Massachusetts, U.S. Geological Survey Open File Report 72-219.

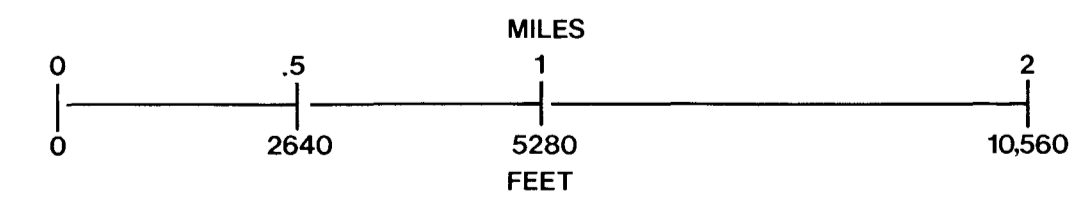
Larsen, F.D., Post 1972, Additional unpublished surficial mapping of the Easthampton Quadrangle.

Reconnaissance surficial geologic mapping was performed in the study area in both the Main and Tom and Easthampton quadrangles by IEP, inc. surficial geologists.

BASE MAPS:

USGS, 1979, Mount Tom Quadrangle 7.5-Minute Topographic Map, Reston, VA: USGS, 1:25000.

USGS, 1979, Easthampton Quadrangle 7.5-Minute Topographic Map, Reston, VA: USGS, 1:25000.



**AQUIFER LAND ACQUISITION STUDY
TOWN OF EASTHAMPTON 1987
SURFICIAL GEOLOGY**