







LIST OF MAP UNITS

Explanation of Map Symbols

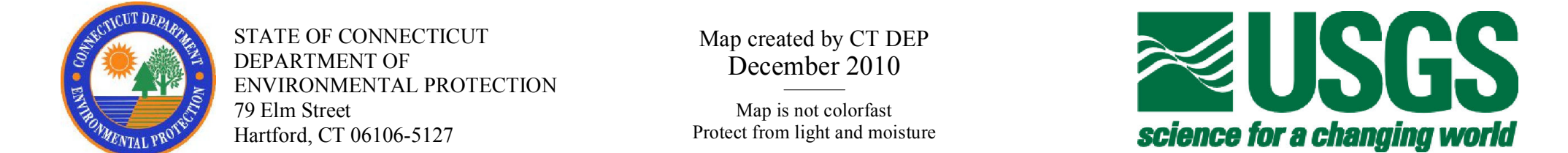
	Area of glaciofluvial deposits grading to glacial lake		100 Ft. Interval		Radio-carbon-Dated Locality
	Area of lake-bottom sediments		50 Ft. Interval		
	Drainage Divide -- boundary between major geologic basins.				
	Drainage Divide -- boundary within major geologic basin dividing it into north-draining and south-draining regions				

Deposition of the morphosquences that progressively filled bedrock valleys and lowlands as the last glacier melted northward required the presence of impounded lakes and ponds. The nature of the impoundments and the resulting distribution of the meltwater deposits on the landscape were controlled by the topography of the area being deglaciated. Where ice stagnated in the north, the ice margin formed the south-draining basins, previously deposited sediment formed the dams, and the oldest morphosquences occupied the lowest, widest parts of the valley. Deposition then

Postglacial deposits provide locally important ecological, agricultural, commercial,

CONTOUR DATA - Derived from Connecticut's 2000 statewide LIDAR, (Light Detection And Ranging), dataset by the University of Connecticut, College of Engineering and Natural Resources, Department of Geomatics Engineering, Environment. These data are a Beta product intended for research and demonstration purposes. NOTE: Contour line data is known to be incorrect in some areas due to errors in the underlying elevation data used to generate the contours. These errors are most likely to occur in areas with steep slopes, and in areas where contour lines are too straight or angular, do not naturally curve where expected, or don't exist where they probably should do so due to natural or erroneous data.

Figure 1 shows a map of the study area. At the top, there is a scale bar with two units: miles (0 to 2) and kilometers (0 to 3.2). Below the scale bar is a north arrow. The main map displays a network of roads. A specific area in the bottom right corner is highlighted with a black box and labeled 'MAP LOCATION'.



accompanies the Quaternary Geology Map of Connecticut and Long Island Sound Basin.

progressed up valley, with the youngest depositional sequences occupying higher, narrower portions of the valley (Figure 2). In north-draining systems the opposite is true. The ice itself was the impoundment, and the oldest morphosequences were emplaced in the higher, narrower portions of the basin. As the ice front retreated northward, a succession of lower bedrock spillways were opened and the valleys widened. In this case, the youngest depositional sequences occupied the lowest, widest portions of the valley (Figure 2).

and recreational resources. Talus, a result of rockfall at the base of steep bedrock (primarily trap rock) cliffs, and inland dune deposits, that developed as winds swept across newly exposed glacial lake beds, provide ecological niches that are atypical for Connecticut. Beach, dune, marsh and swamp deposits are key ecological elements of coastal and poorly drained inland settings. Deposits of floodplain alluvium are largely composed of sands, gravels and silts that have been reworked from glacial deposits and mixed with organic matter which increases their fertility. Despite their flood-

QUATERNARY GEOLOGY AND SURFICIAL MATERIALS DATA - 1:24,000-scale digital spatial data of Connecticut Quaternary Geology and Surficial Materials combined into one dataset, published by the Connecticut Department of Environmental Protection, in cooperation with the U.S. Geological Survey. These data were digitized from the 1:24,000-scale compilation sheets prepared for both the Surficial Materials Map of Connecticut, (Stone, J.R., Schaffer, J.P., London, E.H., and Thompson, W.B., 1999, *Surficial Materials Map of Connecticut*, 2 sheets, scale 1:25,000, map and pamphlet, 71 p.) and the Quaternary Geologic Map of Connecticut and Long Island Sound Basin, (Stone, J.R., Schaffer, J.P., London, E.H., DiGiacomo-Cohen, M.L., Lewis, R.L., and Thompson, W.B., 2005, U.S. Geological Survey Scientific Investigation Map 2784, 2 sheets, scale 1:25,000).

OTHER GEOLOGIC MAPS - This map is also available for individual USGS topographic quadrangles of Connecticut. This map is intended to be used with other bedrock, surficial, and quaternary (glacial) geology town maps and reports published by the Connecticut Geological and Natural History Survey, USGS, and others. Those maps are reports are also available from CT DEP.

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the CT DEP website for the digital spatial data shown on this map.

MAP LOCATION

2 miles

et

36 in)

