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no. 764

PRELIMINARY MATERIALS MAP, BERLIN QUADRANGLE

NEW YORK, MASSACHUSETTS AND VERMONT

BY G. W. HOLMES

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U. S. Geological Survey.

[Reports - Open file series, no 764]

65-73

1929 9

3 JAN 1965

Field and megascopic observations:

Station number 1

Location: County Berkshire Town Williamstown

Pit X Active Inactive

Road location Route 23 1/2 mile north of Hancock town line

Coordinates 42°38' N. 73°17' W.

Geologic unit or occurrence Delta

Textural description Cobble gravel (variable) Eng. Soil Type GW

Dimensions of deposit: Areal extent 1500' x 2000' Estimated thickness 40

Dimensions of pit: Areal extent 200 x 300' Exposed thickness 30

Lithologic composition (approximate %)

Grain size: Maximum 2" Mean 2" Est. % of sand 30 Est. % fines 5

Rounding Medium Grading well Sorting medium

Soil development Faint B horizon 1.5' Color Lt. yellowish brown

Oxidation or staining slight Leaching

Secondary deposition Reactive matter

Section

Rock type %

Quartzite 15

Schist (some quartzitic) 79

Phyllite 2

Quartz 4

Slumped. Gently inclined foresets and flat topsets observed and photographed by Professor Freeman Foote of Williams College. Poorly stratified topsets exposed.

General Description: A small delta derived from local materials deposited by a torrential lateral stream which entered glacial Lake Bascom at about the level of the delta top. A better than average source of gravel in this area owing to the low percentage of phyllite.

U.S. Geological Survey
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Quadrangle Berlin, New York-Mass.
State Massachusetts
Geologist G. W. Holmes
Date September 1964
Project Mass. Materials

Field and megascopic observations:

Station number 2

Berlin
Quadrangle

Location: County Berkshire Town Williamstown Pit Active
X Inactive

42°39' N.

Road location Oblong road and Rte. 23 Coordinate 73°16' W.

Geologic unit or occurrence Alluvial fan, possibly a delta-fan

Textural description Pebble gravel Eng. Soil Type GP

Dimensions of deposit: Areal extent 1500 x 1000' Estimated thickness 25

Dimensions of pit: Areal extent est. 400' x 400' Exposed thickness 15'

Schist 80 %, quartzite 10 %,

Lithologic composition (approximate %) misc. 10%

Grain size: Maximum 5" Mean 2" Est. % of sand 40 Est. % fines 3

Rounding Well Grading Poor Sorting Medium

Soil development Color Light yellowish brown

Oxidation or staining Leaching

Secondary deposition Reactive matter

Section:

Rock type

Slumped

Massachusetts
State

G. W. Holmes
Geologist

September 1964
Date

Mass. Materials
Project

General Description: Large shallow pit of fair quality gravel.

Accessible to major road but in prime farm land.

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Field and megascopic observations:

Station number 3

Location: County Berkshire Town Williamstown

Pit X Active Inactive

Oblong road 1 mile north
Road location of Elcan Road

Coordinates 42°41' N.
73°38' W.

Berlin
Quadrangle

Geologic unit or occurrence Delta

Textural description Pebble gravel

Eng. Soil Type GP

Dimensions of deposit: Areal extent

Estimated thickness 40'

Dimensions of pit: Areal extent 100' x 150' Exposed thickness 18'

Lithologic composition (approximate %) 5% miscellaneous, 85% schist,
5% quartz, 5% quartzite

Grain size: Maximum 6" Mean 2" Est. % of sand 30 Est. % fines 5

Rounding Medium Grading Poor Sorting Fair

Soil development 2-3" B horizon Color Light yellowish brown

Oxidation or staining Distinct to CA. 3' depth Leaching

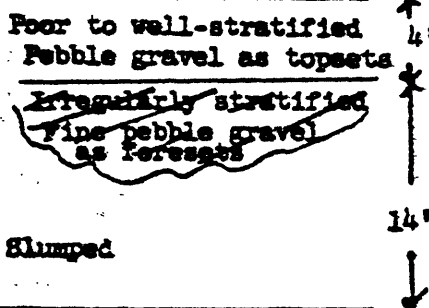
Secondary deposition Reactive matter

Massachusetts
State

G. W. Holmes
Geologist

Section:

Rock type



September 1964
Date

Mass. Materials
Project

General Description: Small distinct delta at level of glacial Lake

Bascon derived from local sources. Average quality gravel, which
is low in this vicinity.

U.S. Geological Survey
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