

25 July 63 # 50114

U. S. Geological Survey

OPEN FILE MAP

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

BELTSVILLE QUADRANGLE
MARYLAND
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 LAUREL 15' QUADRANGLE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EXPLANATION

Qal

Alluvium, Quaternary age

Poorly sorted gravel, sand and clay derived from the surrounding rocks.



Area in which the Patuxent Formation, Cretaceous age, overlies the Patuxent Formation.

Kp

Patuxent Formation, Cretaceous age

Quartz and quartzite gravel and sand, light brown and buff; clay, white and light brown.



Areas in the Patuxent Formation where the above-listed ratios of gravel to sand-clay occur. Lines join points of ratios 1/5 and 1/1 only (dotted where Patuxent is removed by erosion).

X 1/3

Pit showing observed gravel/sand-clay ratios in the upper part of the Patuxent Formation.

X 1/1

Road cut or other limited exposure showing estimated ratios of gravel to sand and clay.

Ratio 1/5 = Bd-37 Identification number

Drill-hole location; from log in files of the Maryland Geological Survey. Shows ratio of gravel to sand and clay.

Ratio 1/2 = Bb-6 Identification number

Drill-hole location; from log in Johnston, Paul W., 1961, Geology and ground water of the Washington, D. C. area: U. S. Geol. Survey Open-File report. Shows ratios of gravel to sand and clay.

X 3

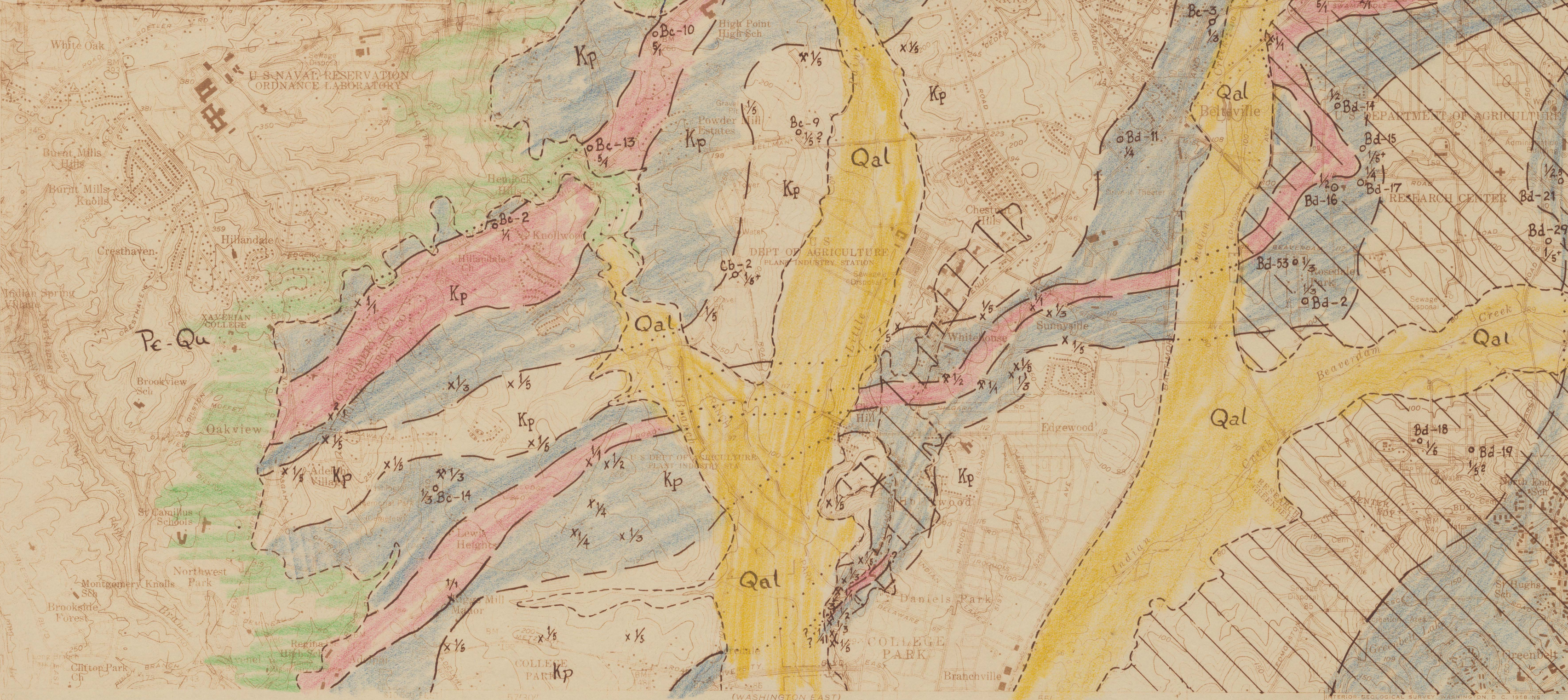
Number of readings

Pit shows current lineation obtained from cross bedding or channel axes.

Pe-Qu

Precambrian-Quaternary undifferentiated

Precambrian: quartz, mica schist; Quaternary: clay, sand, gravel.



Map made, edited, and published by the Geological Survey (USGS, USCGS, USFWS, and WSO).

Topography from aerial photographs by photogrammetric methods.

Aerial photographs taken 1955. Field check 1956.

Projection: 1927 North American datum.

Horizontal and vertical based on Maryland coordinate system.

100-meter Universal Transverse Mercator grid.

Zone 18, shown in blue.

Red dashed lines indicate selected fence and field lines.

Visible on aerial photographs. This information is unclassified.

Red dots indicate areas in which only landmark buildings are shown.

SCALE 1:24,000

CONTOUR INTERVAL: 10 FEET

datum is MEAN SEA LEVEL

Map showing gravel resources in the
Patuxent Formation of Cretaceous age
in the Beltsville Quadrangle, Prince
Georges and Montgomery Counties,
Maryland
By C. F. Withington

ROAD CLASSIFICATION

Heavy duty Light duty
Medium duty Unimproved dirt
U.S. Route State Route

BELTSVILLE, MD.

SW/4 LAUREL 15' QUADRANGLE

N 3900' - W 7652.5' / 7.5

1956

Maryland (Beltsville quad.) Gravel. 1:24,000. 1964.
cop. 1.



MC(200)
R290
no. 704
c.1