

LEGEND

Recent

- Qm Made land (Artificial fills, spoil banks, dumps, etc.)
- Qex Excavations in unconsolidated material
- Qp Peat and muck deposits
- Qf Basin fills of surface wash
- Qal Alluvium (Silt, sand, and gravel deposited by present streams)
- Qds Dune sand (Mainly beach sand reworked by wind)
- Qb Beach ridges and related deposits of sand and gravel (Made during and since the various stages of Lake Chicago)
- Ql Glacial lake bottom (Commonly without lacustrine deposits)
- Qls Glacial lake bottom (Covered by lacustrine silt and sand)
- Qr Glacial river bottom (Chiefly erosional, with some residual gravel)
- Qrb Glacial river bars (Low mounds and hillocks of gravel deposited by glacial streams)
- Qqs Outwash plains (Sand and gravel spread in front of melting glacier)
- Qks Kames, eskers, and similar deposits (Locally sorted sand and gravel deposited in close relation to glacial ice)

Wisconsin

- Qtm Tinley ground-moraine
- Qtm Tinley moraine
- Qvm Valparaiso ground-moraine
- Qvm Valparaiso moraine
- Qle Lemont drift

Silurian

- Sn Niagara series of undifferentiated dolomitic formations, exposed

Shoreline of Calumet stage of Lake Chicago (Where defined by beach deposits or wave-cut cliffs)

Shoreline of Glenwood (oldest) stage of Lake Chicago (Where defined by beach deposits or wave-cut cliffs)

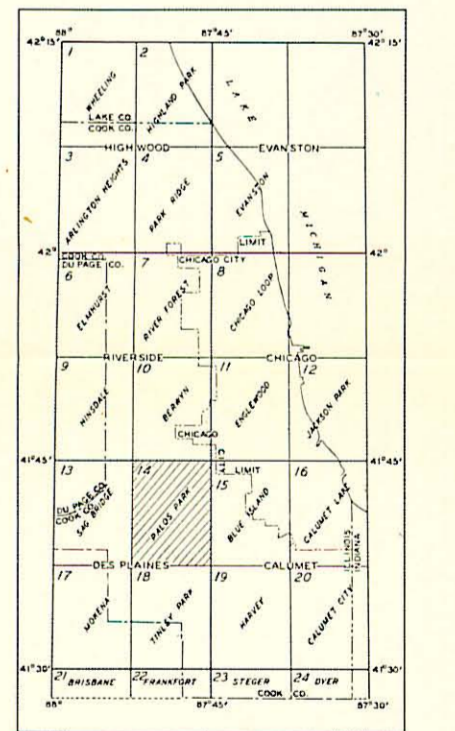
Approximate position of shorelines of Lake Chicago (Where not defined by above features but generalized with reference to contour lines)

Definitely determined boundary between deposits

Indefinite boundary between deposits

Rock quarry

Sand or gravel pit



Topographic base surveyed in cooperation with the U. S. Geological Survey, 1925.

SURFICIAL GEOLOGY OF THE PALOS PARK QUADRANGLE

BY
J HARLEN BRETZ

Geologically surveyed in 1930-1932. In connection with other quadrangles of the Chicago area.

