GAULT DONATION
MONT ST. HILAIRE, P.Q.

EAST HILL

LAKE HILL

LAC HERTEL

SUNRISE

PAIN DE SUCRE

HIGHWAY 9

RUE FORTIER

ski jump

field

ladder

SCALE

Yards 0 100 200 300 400

0 1/4 1/2 3/4 1 Mile

N

LEGEND

Contour — 350

Spot height (in feet) · 284

Stream

Lake or swamp

Forest boundary

Orchard boundary

Paved road

Unpaved road

Trail

Pink trail — P —

Blue trail — B —

Yellow trail — Y —

Red trail — R —

Green trail — G —

Quarry

Building

Bridge

Estate boundary

Contour interval — 50 feet

Source: Air photography (1962), A.E. Simpson, Ltd.
Revised by P.D. Baird, [redacted]
Drawn by C.C. Weiss.

LEGEND FOR THE GEOLOGICAL MAP OF THE MONT SAINT HILAIRE PLUTON

CRETACEOUS

MONT SAINT HILAIRE PLUTON (units 3-12)

East Hill Suite (units 9-12)

12 Fine-grained nepheline syenite, porphyry and phonolite with trachytoid feldspar, nepheline and sodalite phenocrysts and xenocrysts.
----- intrusive contact -----

11 Coarse-grained peralkaline nepheline syenite and pegmatite with feldspar, nepheline and sodalite phenocrysts
----- relations uncertain -----

10 Breccia of well-rounded, locally altered, fragments in comminuted matrix. Fragments mainly of units 2-8, with minor 9, 11 and 12
----- cross-cutting contact -----

9 Igneous breccia with rounded, contorted fragments and xenocrysts of units 3-12 in a trachytoid, opaque-charged matrix
----- cross-cutting contact -----

Pain de Sucre Suite (units 7-8)

8 Medium to coarse-grained nepheline diorite and monzonite, plagioclase rimmed by k-spar, interstitial nepehline, mafic clots containing olivine, titanaugite, kaersutite and biotite
----- gradational contact -----

7 Biotite trachygabbro; plagioclase laths with thin k-spar rims, mafic clots of olivine, titanaugite, kaersutite and biotite
----- intrusive contact -----

Sunrise Suite (units 3-6)

6 Anorthositic gabbro and leucogabbro, commonly foliated and rich in titanaugite and magnetite
----- gradational contact -----

5 Kaersutite gabbro; strongly foliated, coarse-grained rocks with minor titanaugite and biotite
----- gradational contact -----

4 Kaersutite-pyroxene gabbro; moderately to weakly foliated granoblastic rocks with subequal amounts of kaersutite and titanaugite
----- gradational contact -----

3 Melagabbro and jacupirangite: strongly to moderately foliated, medium-grained rocks rich in titanaugite and magnetite
----- intrusive contact -----

2 Hornfels and metasomatised hornfels; fine-grained to aphanitic brown to black, conchoidally fracturing pelites with abundant dyke

ORDOVICIAN

1 RICHMOND GROUP; calcareous siltstone and shale, siltstone, limestone

Strike and dip of bedding

Strike and dip of joints

Strike and dip of igneous lamination or layering

Geological contact, approximate, gradational

Geology by K.C. Rajasekeran 1966; H.M.Aarden 1970; K.L.Currie 1971,1972
Geological compilation and interpretation by K.L. Currie 1982

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