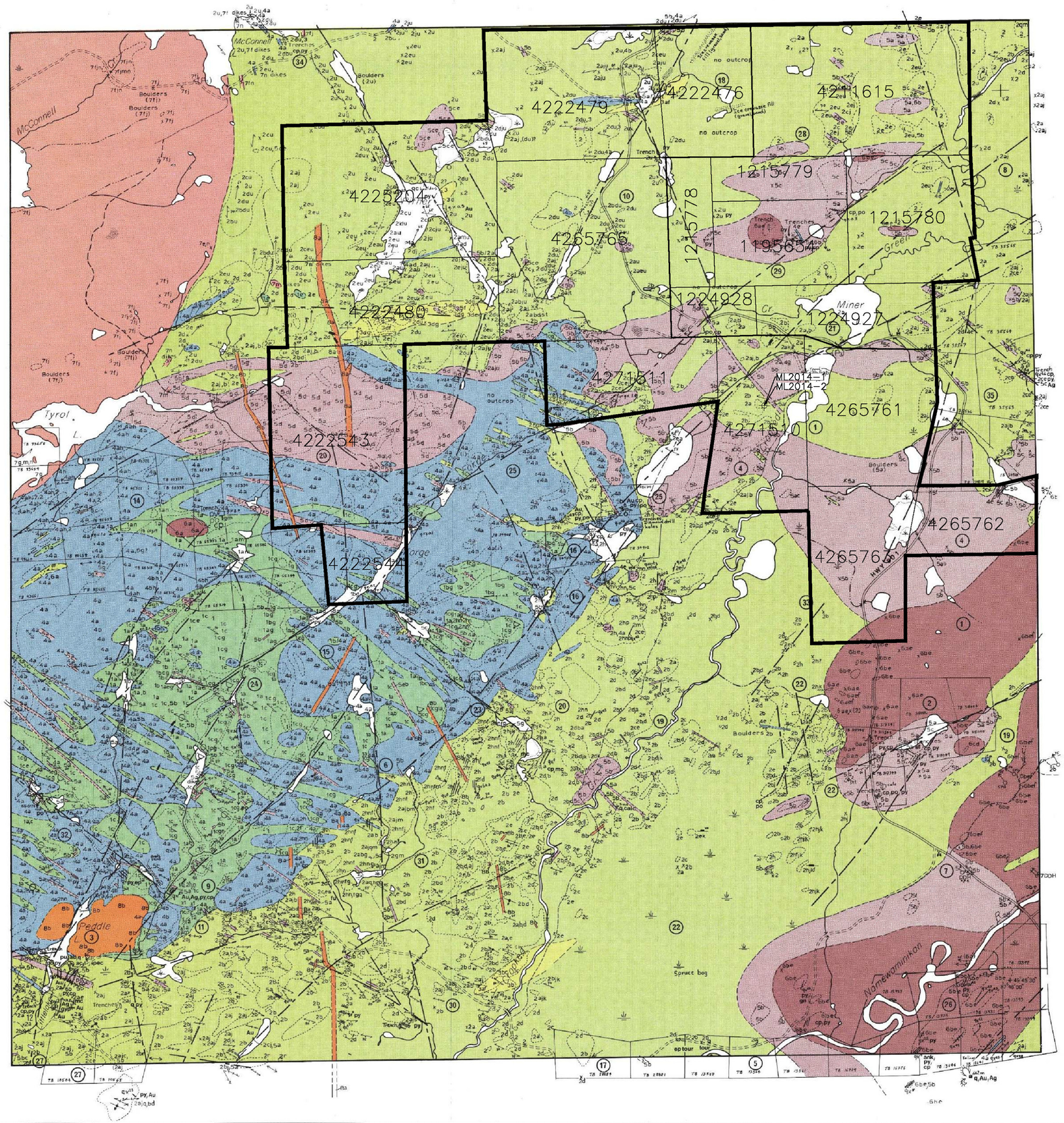

LEGEND[a,b,c]

PHANEROZOIC
CENOZOIC
QUATERNARY
PLEISTOCENE AND RECENT
Peat, lake and stream deposits

UNCONFORMITY

PRECAMBRIAN
MIDDLE TO LATE PROTEROZOIC
MAFIC INTRUSIVE ROCKS

8 — 8a Diabase, plagioclase porphyritic
8b Diabase, nonporphyritic
8c Diabase, pegmatitic

INTRUSIVE CONTACT

ARCHEAN
FELSIC AND INTERMEDIATE PLUTONIC ROCKS
NORTH WIND LAKE PLUTON

7 — 7a Diorite
7b Quartz diorite
7c Tonalite
7d Trondhjemite
7e Quartz monzodiorite
7f Granodiorite
7g Quartz monzonite
7h Granite
7j Biotite-bearing
7k Hornblende-bearing
7m Aplite
7n Pegmatite
7p Microcline porphyritic
7r Gneissic
7x Xenolith-bearing[d]

INTRUSIVE CONTACT

EARLY GRANITIC INTRUSIONS

6 — 6 Unsubdivided
6a Diorite
6b Quartz diorite
6c Tonalite
6d Biotite-bearing
6e Hornblende-bearing
6f Plagioclase porphyritic
6g Gneissic
6X Xenolith-bearing[d]

INTRUSIVE CONTACT

INTERMEDIATE TO FELSIC HYPABYSSAL ROCKS

5 — 5a Quartz and quartz-feldspar porphyry
5b Feldspar porphyry
5c Feldspar-amphibole porphyry
5d Biotite-bearing feldspar-quartz porphyry
5e Blue quartz phenocryst-bearing
5f Felsite
5g Granitic dikes
5h Amphibolite grade metamorphism
5j Sericite schist

MAFIC TO ULTRAMAFIC INTRUSIVE ROCKS

4 — 4a Gabbro, mesocratic to melanocratic, medium to coarse grained
4b Gabbro, coarse to very coarse grained
4c Gabbro, leucocratic
4d Gabbro, plagioclase-porphyritic
4e Mafic (basaltic) dikes
4f Ultramafic rocks (dikes)
4g Lamprophyre
4h Amphibolite-grade metamorphism

METAVOLCANICS
FELSIC METAVOLCANICS

3 — 3 Unsubdivided
3a Tuff
3b Lapilli tuff, lapillistone; monolithic
3c Lapilli tuff, lapillistone; heterolithic
3d Tuff breccia; monolithic
3e Tuff breccia; heterolithic
3f Porphyritic rocks (quartz and feldspar phenocrysts)
3g Amphibolite grade metamorphism

INTERMEDIATE TO FELSIC METAVOLCANICS

2 — 2 Unsubdivided
2a Tuff
2b Lapilli tuff, lapillistone; monolithic
2c Lapilli tuff, lapillistone; heterolithic
2d Tuff breccia; monolithic
2e Tuff breccia; heterolithic
2f Flow-top breccia
2g Hyaloclastite
2h Massive flow
2j Plagioclase porphyritic
2k Amphibole porphyritic
2m Vesicular
2n Igneous banding
2p Spherulitic
2q Fiamme bearing
2r Chlorite-sericite schist
2s Silicified
2t Feldspathized (potassium feldspar)
2u Amphibolite grade metamorphism

MAFIC TO INTERMEDIATE METAVOLCANICS

1 — 1 Unsubdivided mafic rocks
1a Massive flows
1b Coarse-grained flows
1c Pillowed flows
1d Pillowed breccia
1e Flow-top breccia
1f Hyaloclastite
1g Amygdular
1h Tuff
1j Lapilli tuff
1k Tuff breccia
1m Amphibolite grade metamorphism
1n Chlorite schist
1p Epidotized
1q Carbonatized
1r Porphyritic (plagioclase phenocrysts)
1v Variolitic

[a] *The letter "n" in brackets following a rock unit number (e.g. 4(n)) indicates that the outcrop shown from airphoto interpretation has not been visited by the field party; the lithology has been inferred.*

[b] *Rocks listed in this legend are subdivided lithologically and order does not imply an age relationship.*

[c] *The Legend and related material apply to Map 2536 and Map 2537; all units may not be present on this sheet.*

[d] *Xenolith lithology is listed in parentheses, e.g. 7x(1k).*

SAMPLING LEGEND

ML2014-1 — 2014 Sampling Locations

Ministry of Northern Development and Mines — Mines and Minerals Division
Ontario

Ontario Geological Survey

Map 2537

PRECAMBRIAN GEOLOGY

PIFHER TOWNSHIP

Scale: 1:20 000

Metres 500 — 0 — 1 Kilometre
Mile 1/4 — 0 — 1/2 Mile

NTS Reference: 42 E/13
ODM–GSC Aeromagnetic Map: 2136G
ODM Geological Compilation Map 2102

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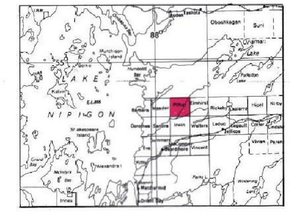
CANADA ONTARIO — Canada-Ontario Agreement Entente Canada-Ontario

This project is part of the five-year Canada-Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.


Obashkagan
Sturgeon
Lake
Pikitigushi
Lake
Lake
Nipigon
Nipigon
Orient
Bay
Jackfish
Bay
Rossport
Nipigon
Red Rock
Gravenhurst
Longlac
Geraldton
Beardmore
Nakina
Manitouwadge
Marathon
Hornepayne
Dubreuilville
Wawa
Chapleau
Elliot Lake
Blind River
Sault Ste. Marie
Thessalon
Iron Bridge
Cutler
Massey
Espanola
Sudbury
Capreol
Levack
Onaping
Falconbridge
Worthington
Skead
Sellwood
Algoma Mills
Echo Bay
Spragge
Webbwood
Mississagi River
Thessalon River
Serpent River
Spanish River
Vermilion River
Whitefish River
Manitoulin Island
Little Current
Gordon Lake
Mattagami River
Groundhog River
Kenogamissi Lake
Chiskamisinga Lake
Biscotasing
Sagamok
Mississauga River
Spanish River
Blind River
Elliot Lake
Serpent River
Thessalon River
Mississagi River
Iron Bridge
Cutler
Massey
Espanola
Sudbury
Capreol
Levack
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