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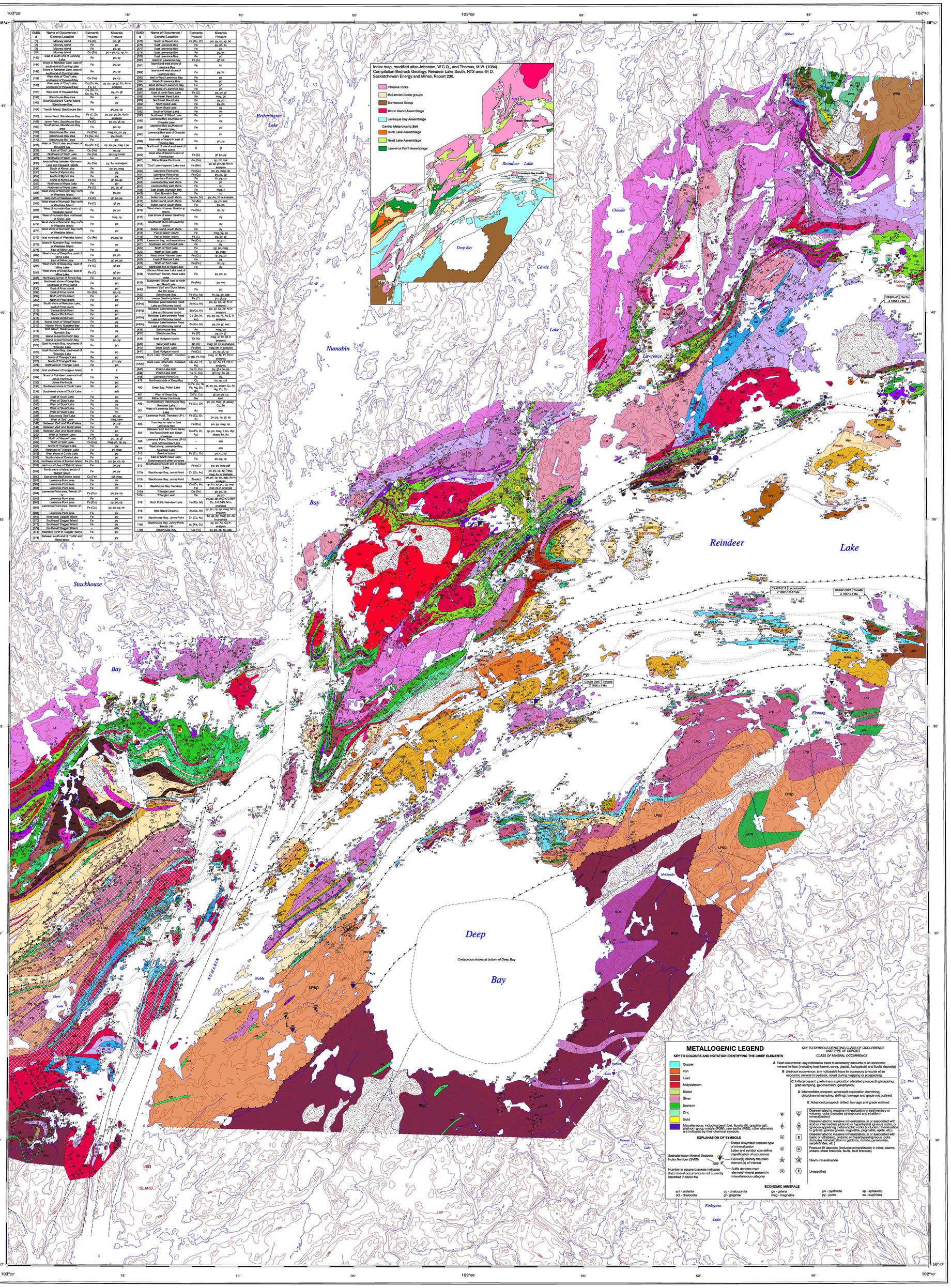
GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

Saskatchewan Industry and Resources

SMDI #	Name of Occurrence / General Location	Elements Present	Minerals Present
[1]	Mooney Island	Fe (C)	py, gf
[2]	Mooney Island	Fe	py
[3]	Mooney Island	Fe	po, py
[4]	Mooney Island	Cu (Zn)	po + py, cp, sp, fu
[143]	South of east end of Cunning Lake	Fe	po, py
[144]	Shore of Reindeer Lake, east of south end of Cunning Lake	Fe	po, py
[147]	Shore of Reindeer Lake, east of south end of Cunning Lake	Fe	po, py
[159]	West side of 'Club' Lake, southwest of Hayward Bay	Cu (Fe)	py, cp
[160]	West side of 'Club' Lake, southwest of Hayward Bay	Cu (Zn, As, Fe, Ci)	py, po, cp, gf; Zn, As in analysis
[161]	West side of Hayward Bay	Cu (Zn, Ni, Co, Au, Fe	py, po, gf
[162]	Stackhouse Bay area	Fe	po
[163]	Southeast from "Camp" Island, Stackhouse Bay	Fe	py
[164]	"French" Island, Stackhouse Bay	Fe	po, py, cp
[165]	Jenny Point, Stackhouse Bay	Fe (C, Zn, Au)	py, po, gf; Zn, Au in analysis
[166]	Jenny Point, Stackhouse Bay	Fe (C)	py, po, gf, sp
[167]	South shore, Stackhouse Bay area	Fe	po, py
[168]	Stackhouse Bay area	Fe (Cu)	mag, cp, py, gy
[169]	Stackhouse Bay area	Fe (As, Cu)	py, po, cp
[170]	Stackhouse Bay area	Fe	po
[228]	West of 'Club' Lake, southwest of Hayward Bay	Cu (Zn, Fe)	cp, sp, py, mag ± po
[229]	East of 'Club' Lake	Cu (Fe)	cp, py
[227]	Northeast of 'Club' Lake	Cu (Fe)	cp ± py ± mal
[228]	Northeast of 'Club' Lake	Cu	cp
[236]	Area halfway between Germann Lake and Hayward Bay	Au (Fe)	py; Au in analysis
[244]	South of Klyne Lake	Fe	py, po, mag
[251]	North of Klyne Lake	Fe	py
[252]	North of Klyne Lake	Fe	py
[253]	North of Klyne Lake	Fe (C)	gf, po, py
[257]	Northeast of Klyne Lake	Fe	po
[262]	Northeast of Klyne Lake	Fe	po, py, gf
[265]	West shore of Numatin Bay north of Westlake Island	Fe	py, po
[266]	Islet north of Westlake Island	Fe (C)	gf, po, py
[267]	West shore of Numatin Bay north of Westlake Island	Fe (C)	gf, py
[268]	West of Numatin Bay, north of Westlake Island	Fe	py, po
[269]	West of Numatin Bay, northeast of Klyne Lake	Fe	mag, py
[270]	West shore of Numatin Bay north of Westlake Island	Fe	po
[271]	West shore of Numatin Bay north of Westlake Island	Fe	po
[272]	Islet northeast of Westlake Island	Cu (Fe)	po, py, cp
[273]	Island in Numatin Bay, northeast of Westlake Island	Fe	py
[275]	East of Mine Lake	Fe	py
[276]	West shore of Deep Bay, east of Mine Lake	Fe	py, po
[283]	East of Mine Lake	Fe (C)	gf, po, py
[284]	West shore of Deep Bay, east of Mine Lake	Fe (C)	gf, py
[285]	West shore of Deep Bay, east of Mine Lake	Fe (C)	gf, po
[286]	Northeast corner of Timew Bay	Fe	py, po
[290]	Northeast shore of Deep Bay, southeast of Price Island	Fe	po
[293]	East of Price Island	Fe	po
[294]	East of Price Island	Cu (Zn)	sp, cp
[297]	North of Price Island	Fe	po
[298]	North of Price Island	Fe	po
[302]	South shore of Reindeer Lake, east of Price Island	Fe	po
[313]	Central Birch Point	Fe	po
[314]	Central Birch Point	Fe	po
[315]	Central Birch Point	Fe	po
[318]	Island south of 'Mange' Island	Fe	py
[317]	"Homer" Point, Numatin Bay	Fe	po
[318]	Watt Island, Stackhouse and Numatin Bay	Fe	py
[320]	Island in east Numatin Bay	Fe	po
[321]	Island in east Numatin Bay	Fe	po, py
[322]	East Numatin Bay, southwest of "Triangle" Lake	Fe	po
[323]	East Numatin Bay, southwest of "Triangle" Lake	Fe	po
[324]	North of "Triangle" Lake	Fe	po
[325]	North of "Triangle" Lake	Fe	po ± py
[326]	Northwest of "Triangle" Lake	Fe	po
[328]	Islet southeast of Hodgson Island	Ti	il
[332]	Shore of Reindeer Lake north of Jones Peninsula	Fe	py
[333]	Jones Peninsula	Fe	po
[334]	Southeast shore of 'Duck' Lake	Fe	po
[336]	Southwest shore of 'Duck' Lake	–	ash
[340]	East of 'Duck' Lake	Fe	po
[341]	West of 'Duck' Lake	Fe	py
[342]	West of 'Duck' Lake	Fe	py
[343]	West of 'Duck' Lake	Fe	py
[344]	West of 'Duck' Lake	Fe	lm
[345]	East shore 'Zed' Lake	Fe	po, py
[346]	West of 'Zed' Lake	Fe	mag, hem
[347]	Between 'Zed' and 'Duck' lakes	Fe	po, py
[348]	Between 'Zed' and 'Duck' lakes	Fe	lm
[349]	Between 'Zed' and 'Duck' lakes	Fe	po, py
[350]	West of 'Narrow' Lake	Fe	py
[351]	North of 'Narrow' Lake	Fe (C)	po, py, gf
[352]	North of 'Zed' Lake	Fe (Cu)	mag, po, cp, py
[353]	North of 'Triangle' Lake	Fe	py
[354]	Northeast of 'Triangle' Lake	Fe	py, mag
[355]	West shore of Cowie Lake	Fe	po
[356]	South shore of Cowie Lake	Fe	po
[357]	Northeast shore of Brenton Island	Fe (Cu, Zn)	po, py, cp, sp
[358]	Islet in north bay of 'Rabbit' Island	Fe	po, py
[359]	North shore of Island south of Rabbit Island	Fe	po, py
[360]	East shore MacFarlane Island	Cu (Fe)	cct, mag
[361]	Lawrence Point area	Fe	py
[362]	Lawrence Point area	Fe	py
[363]	Lawrence Point area	Fe	lm
[364]	Lawrence Point area, Trench LP-1	Fe (Cu)	po, py, cp
[365]	Lawrence Point area	Fe	py
[366]	Lawrence Point area	Fe (Cu)	py, po, cp
[367]	Lawrence Point area, Trench LP-1	Fe (Cu)	py, po, cp, lm
[368]	Lawrence Point area	Fe	py
[369]	Northwest, 'Dagger' Island	Fe	py
[370]	Southeast 'Dagger' Island	Fe	py
[371]	Southeast 'Dagger' Island	Fe	py
[372]	Southeast 'Dagger' Island	–	ash
[373]	Mainland north of 'Dagger' Island	Fe	py
[374]	Between south end of 'Turtle' and Reed lakes	Fe	py
[375]	South of Reed Lake	Fe (Cu, Zn)	po, py, cp, sp, bo
[376]	East Lawrence Bay	Fe	py, po, su
[377]	East Lawrence Bay	Fe	py
[378]	East Lawrence Bay	Fe	py, im
[379]	East Lawrence Bay	Fe	py, im
[380]	Island in Lawrence Bay	Fe (C)	gf, mt
[381]	Island and west shore of Lawrence Bay	Fe	lm
[382]	Island in west shore of Lawrence Bay	Fe	py, lm
[383]	Islet in West Lawrence Bay	Fe	po
[384]	West of Lawrence Bay	Fe	po
[385]	West shore of Lawrence Bay	Fe	po
[386]	West shore of Lawrence Bay	Fe	po
[387]	East of north Reed Lake	Fe (C)	po, py, gf
[388]	Northeast Reed Lake	Fe	mag, py
[389]	Northeast Reed Lake	Fe	py, po
[390]	North Reed Lake	Fe	py, po
[391]	North Reed Lake	Fe	py
[392]	South of Gilbert Lake	Fe	lm
[393]	Southeast of Gilbert Lake	Fe	po
[395]	Lawrence Bay southeast of Cheadle Lake	Fe	py
[396]	Lawrence Bay southeast of Cheadle Lake	Fe	po
[397]	Lawrence Bay east of Cheadle Lake	Fe	lm
[398]	East side of island in east of Fleming Bay	Fe	po, py
[399]	North end of island southeast of Brenton Island	C	gf
[400]	West side of island in east of Fleming Bay	Fe (C)	gf, po, py
[401]	Milne-Timew Peninsula	Cu (Fe)	po, cp, mal
[402]	'Club' Lake-Hayward Lake area	Fe (Mn)	py, gf, gm, gt; Mn in analysis
[403]	Lawrence Point area	Fe (Cu)	po, py, mag, cp
[404]	Lawrence Point area	Fe (Cu)	po, py, cp, sp
[405]	Lawrence Point area	Fe	lm, py, po
[406]	Lawrence Bay east shore	Fe	py
[407]	Lawrence Bay east shore	Fe	su
[408]	East shore, Numatin Bay	Fe	mag, s
[409]	East Numatin Bay	Fe	su
[410]	Butler Island, south shore	Fe (Au, Ni)	py; Au, Ni in analysis
[411]	Butler Island, south shore	Fe (Au)	py, po, asp
[412]	Butler Island, south shore	Fe	py, po
[413]	West shore of lesser Gawthrop Island	Fe (Cu)	cp, py
[414]	East shore of lesser Gawthrop Island	Fe	py
[415]	Southwest shore of Gawthrop Island	Fe	py
[416]	Butler Island, south shore	Fe	py
[418]	"Fat-in-Water" Island	Fe	mag, py, po
[419]	"Fat-in-Water" Island	Fe (C)	py, po, gf
[420]	Lawrence Bay, northeast shore	Fe (Cu)	cp, po
[421]	Southwest end of Reed Lake	Fe	py
[422]	North of 'Zed' Lake	Fe	py, po, mag
[423]	North of 'Zed' Lake	Fe	py, mag
[424]	West shore 'Narrow' Lake	Fe (Cu)	cp, py, po
[425]	East of 'Narrow' Lake	Fe	py
[426]	North of 'Zed' Lake	Fe (Cu)	cp, py
[427]	Northeast end of Reed Lake	Fe	py
[428]	Shore of Reindeer Lake east of 'Dutchman' Trench, Reed Lake area	Fe	py, po, su
[429]	Dutchman' Trench east of north end of Reed Lake	Fe (Mo)	py, mo
[430]	Between 'Zed' and 'Duck' lakes; Trench ZN-2	Fe	po
[432]	Stackhouse Bay	Fe (As, Au	lm, py, po, asp
[433]	Lesser Gawthrop Island	Fe (C)	po, gf, py
[434a]	Reindeer Lake between Reed Lake and Mooney Island	Zn (Cu, Ni)	po, py, sp, cp; Ni in analysis
[434b]	Reindeer Lake between Reed Lake and Mooney Island	Zn (Cu, Ni)	po, py, sp, cp; Ni in analysis
[435a]	Reindeer Lake between Reed Lake and Mooney Island	Cu (Zn, Ni, Au)	po, py, cp; Ni, Au-Z, in analysis
[435b]	Reindeer Lake between Reed Lake and Mooney Island	Zn (Cu, Ni)	py, po, gf, asp
[436]	Stackhouse Bay	Fe	mag, po
[437]	Stackhouse Bay	Fe (C)	py, po, gf
[438]	East Hodgson Island	Cr (Ni)	mag, sp; Cr, Ni in analysis
[439]	West 'Zed' Lake	Cr (Ni)	mag; Cr, Ni in analysis
[440]	West 'Duck' Lake	Fe (Mn)	mag; Mn in analysis
[441]	East Hodgson Island	Fe (Cu)	po, sp, gf, cp
[442a]	Duck Lake Ultramafic - Detailed Grid	Cr (Ni, Pt, Pd)	mag, cr; Ni, Pt, Pd in analysis
[442b]	Duck Lake Ultramafic - Detailed Grid	Cu (Au, Pt, Pd)	py, cp; Au, Pt, Pd in analysis
[443]	Pollon Lake Grid	Fe (C, Cu)	py, gf ± po, cp
[444]	Pollon Lake Grid	Fe (C, Cu)	gf ± py, po, cp
[445]	Lawrence Point Grid	Fe	py
478	Northwest side of Deep Bay	Cu	bo, cp, cct
480	Deep Bay, Pollon Lake	C (Fe, Cu, Ni, Fe, Ag, Zn, Co)	gf, po, py, assay; Cu, Ni, Fe, Ag, Zn, Co in analysis
481	West of Deep Bay	C (Fe, Cu)	gf, po, py, cp
482	Milne-Timew Peninsula	Mn	mn
483	Southeast bay, Stackhouse Bay, Reindeer Lake	Fe (Cu, Zn)	py, po, mag, gf, assay; Cu, Zn
501	West of Lawrence Bay, Reindeer Lake	Au	asp
502	Lawrence Point, Trenches LP-L, -S, -E	Fe (Cu, Zn, Ci)	po, py, cp, gf, sp
503	Trenches on islet in East Lawrence Bay	Fe (Cu)	po, py, mag, cp
504	between 'Zed' and 'Duck' lakes; the Route North and South showings	Cu (Fe, Zn, Au)	cp, po, mag, i, bo, dig; assay Zn, Au
508	Lawrence Point, Trenches LP-V1 and -V8 Reindeer Lake	–	ash
509	West shore, Lawrence Bay, Reindeer Lake	–	ash
510	Brenton Island	Fe (Cu, Zn)	po, cp, sp, sp
511	East of North Reed Lake; Dutchman and other trenches	Fe	po, py, cp
512	Southeast of south end of Gilbert Lake	Fe (nC)	po, py, mag sgf
513a	Stackhouse Bay, Jenny Point	Zn (Cu, Au)	py, cp, cp, sp, Tetp, mag; Au in analysis
513b	Stackhouse Bay, Jenny Point	Zn (Au)	po, py, cp, sp, asp; Au in analysis
514	Stackhouse Bay Trenches	Cu (Zn, As, Fe)	cp, bo, so, po, py, asp, and; As in analysis
515a	"Triangle Lake"	Cu (Fe)	py, po, cp
515b	"Triangle Lake"	Fe	py, po
516	Birch Point, Reindeer Lake	Fe (Cu, Ni)	po, py, cp; 0.03% -0.05% Cu, to 0.04% Ni in analyses
518	Watt Island Channel	Zn (Cu, Ni)	py, po, cp, sp, mag; Ni in analyses
519	Stackhouse Bay, Jenny Point	Zn (Cu, Au)	po, cp, sp, mag; Zn, Au in analyses
1785	Stackhouse Bay, Jenny Point, Trench J-6	Au (Fe, Cu)	py, po, Au; Cu in analysis
1786	Stackhouse Bay	Cu (Fe)	py, po, cp, sp, asp



LEGEND

PRECAMBRIAN–PALEOPROTEROZOIC[1]

INTRUSIVE ROCKS

FELSIC INTRUSIVE ROCKS

P — *Granitoid pegmatite; white to pink, coarse to very coarse grained, massive to weakly foliated; plagioclase, microcline, quartz, ± muscovite ± biotite ± magnetite ± apatite*
Pg - muscovite-garnet ± tourmaline ± sillimanite
Pm - pink magnetite-rich granite pegmatite
Pw - white pegmatite; biotite ± muscovite ± K-feldspar
Pu - white unaltered pegmatite

Lgd — *Leucogranodiorite; light grey to light pinkish grey, medium to coarse grained, equigranular, homogeneous, massive to moderately foliated; up to 25 percent quartz, less than 5 percent biotite*

Lg — *Leucogranite; moderate orange pink to pinkish grey, medium to coarse grained, equigranular, massive to weakly foliated/lineated; up to 30 percent each of quartz, microcline and plagioclase; less than 5 percent biotite ± hornblende; 1 percent magnetite (partly hematitized)*
Lgg - interbanded leucogranite-granodiorite
Lgm - strongly migmatized
Lga - aplite
Lgt - two-mica leucogranite

Gd — *Granodiorite; light grey, light medium grey to light pinkish grey, medium to coarse grained, equigranular, massive to moderately foliated; up to 30 percent of both plagioclase and quartz; 10 to 15 percent microcline; 5 to 30 percent hornblende, biotite and/or epidote*
Gdm - migmatitic
Gdx - egmatitic/xenolith-rich granodiorite

Gdp — *Porphyritic granodiorite; pink-grey to light grey, coarse grained, well foliated; 20 to 30 percent, euhedral, 3 to 6 cm plagioclase in a quartz-feldspar-biotite-hornblende matrix; includes numerous veins, dykes, and irregular bodies of pink porphyritic granite*

Gp — *Megacrystic granite-granodiorite-quartz monzonite; light grey to pinkish grey, medium to very coarse grained, inequigranular, with 1 to 5 cm large sub- to euhedral plagioclase megacrysts, massive to strongly foliated/lineated; 40 percent plagioclase; 15 to 25 percent quartz; 10 to 15 percent microcline; 5 to 15 percent hornblende, biotite and epidote; sphene*

Lt — *Leucotonalite; white to very light grey, coarse to medium grained, equigranular, massive to weakly foliated/lineated; up to 50 percent plagioclase; 25 to 35 percent quartz; some microcline; less than 5 percent biotite*

T — *Tonalite; light grey to light medium grey, medium to coarse grained, equigranular, massive to strongly foliated/lineated; up to 50 percent plagioclase; 20 to 30 percent quartz; 5 to 15 percent hornblende > biotite > epidote; ubiquitous magnetite (partly hematitized) ± garnet*
Tg - garnetiferous tonalite
Tq - quartz-rich tonalite
Tm - migmatitic with leucotonalitic melt
Tmx - egmatitic

INTERMEDIATE TO ULTRAMAFIC INTRUSIVE ROCKS

Di — *Diorite; medium grey, brownish grey to greenish grey, medium to coarse grained, hornblende porphyroblastic, massive to strongly foliated/lineated; up to 60 percent plagioclase; 20 to 30 percent hornblende > retrograde biotite > epidote; up to 5 percent quartz; 1 pyrite*
Dii - leucocratic diorite
Dim - microdiorite
Dip - porphyritic diorite
Dx - xenolith-rich diorite
Dz - monzodiorite

Qdi — *Quartz diorite; medium grey, brownish grey to greenish grey, medium to coarse grained, hornblende porphyroblastic, massive to weakly foliated/lineated; 15 to 20 percent hornblende and biotite, 10 to 15 percent quartz*
Qdx - egmatitic/xenolith-rich diorite

Ga — *Gabbro; dark green to greenish black, medium to coarse grained, hornblende porphyroblastic, massive to weakly foliated; up to 60 percent amphibole; up to 50 percent plagioclase; relict clinopyroxene ± biotite ± microcline ± pyrite ± pyrrhotite*
Gal - leucogabbro-anorthosite
Gap - porphyritic gabbro
Gad - diabase

Am — *Mafic-ultramafic dyke; greenish black, fine grained, granoblastic, massive to well foliated; mafic to ultramafic; interpreted as dykes and sills; hornblende, tremolite-actinolite, plagioclase*

U — *Ultramafic flock; greenish black, olive green to dusky green, fine to very coarse grained, massive to well foliated; includes pyroxenite, peridotite and minor gabbro; ± actinolite ± hornblende ± chlorite ± orthopyroxene ± olivine ± serpentine ± plagioclase ± magnetite ± chromite ± pyrite ± pyrrhotite ± chalcopyrite*
Us - actinolite schist
Ub - banded mafic-ultramafic tectonite
Up - pyroxenite
Us - serpentinite (peridotite, harzburgite, websterite)

SUPRACRUSTAL ROCKS

McLENNAN-SICKLE GROUPS

MAr — *Feldspathic psammite; light grey, light pinkish grey to moderate orange pink, fine to medium grained, granoblastic, gneissic, weakly to strongly foliated; laminated to medium bedded; locally with trough cross-bedding and lag deposits; in part migmatitic with up to 30 percent pink granitic leucosome; up to 70 percent plagioclase and quartz; 10 to 20 percent K-feldspar; < 5 percent muscovite; < 5 percent biotite; ± magnetite (in part hematized)*

MArc — *Calcic feldspathic psammite-psammopelite; light grey, maroon to greenish grey, fine-grained; thinly to medium bedded; local trough cross-bedding, lag deposits, and thin conglomerate beds; 5 to 20 percent disseminated diopside, hornblende or epidote occur in distinct layers and as cross-cutting component (alteration?); up to 70 percent plagioclase and quartz; 10 to 20 percent K-feldspar; < 5 percent muscovite; magnetite*

MArs — *Aluminous feldspathic psammite; light grey to light pinkish grey, fine to medium grained, granoblastic, in part gneissic, well foliated; migmatitic with up to 30 percent pink granitic leucosome; locally enriched by biotite-rich melanosome; 10 to 20 percent K-feldspar; up to 10 percent sillimanite fasersklesat and/or sheet-like masses; < 5 percent biotite; ± retrograde muscovite ± magnetite ± ilmenite*

MArp — *Calcic feldspathic pelite-psammopelite; light grey, maroon to greenish grey, fine grained; thinly to medium bedded; local trough cross-bedding, lag deposits, and thin conglomerate beds; 10 to 15 percent (locally up to 40 percent) disseminated diopside, hornblende or epidote occur in distinct layers and as cross-cutting component (alteration?); up to 70 percent plagioclase and quartz; 10 to 20 percent K-feldspar; < 5 percent muscovite ± biotite ± magnetite*

MPsp — *Psammopelite; light grey to light pinkish grey, fine to medium grained, granoblastic, well foliated; resembles McLennan / Sickle groups lithologies; 10 percent pink granitic leucosome; up to 55 percent plagioclase and K-feldspar, 35 percent quartz, 5 to 10 percent biotite, 2 to 5 percent sillimanite, 2 to 5 percent garnet; magnetite*

MCg — *Polymictic conglomerate; light grey to light pinkish grey, well foliated; medium to thickly bedded; poorly sorted with strongly flattened pebble- to boulder-sized volcanic-sedimentary/plutonic clasts set in a fine- to medium-grained psammitic matrix; plutonic clasts dominate locally; injected by 5 to 30 percent pink muscovite-bearing granitic pegmatite; less than 10 percent biotite and/or hornblende; ± muscovite ± garnet ± magnetite*

BURNTWOOD GROUP

BPp — *Pelite; grey to dark grey, locally rusty brown, fine to coarse grained, granoblastic, well foliated to mylonitic; commonly layered with psammitic, psammopelitic and calc-silicate layers; heterogeneous; migmatitic with 20 to 40 percent leucosome; in part porphyroblastic; up to 30 percent of both plagioclase and quartz; 20 to 40 percent biotite; up to 20 percent garnet; up to 2 percent graphite; ± sillimanite ± cordierite ± hypersthene ± diopside*
BPpc - cordierite-bearing

BPsp — *Psammite to psammopelite; light grey, fine grained, granoblastic, well foliated; less leucosome than BPp; up to 20 percent biotite ± garnet*

BDt — *Diatexite; grey, medium to coarse grained, inequigranular, neoblastic, massive to in part gneissic; heterogeneous; 50 to 100 percent leucosome with relict pelitic gneiss BPp; up to 30 percent of both plagioclase and quartz; 20 to 25 percent biotite; 5 to 10 percent garnet; 1 to 2 percent graphite*

DUCK LAKE ASSEMBLAGE

DPp — *Pelite; light medium grey to brownish grey, fine to medium grained, granoblastic, well foliated, schistose; thin to medium-bedded; typically with 5 to 10 percent quartzofeldspathic leucosome; up to 60 percent plagioclase and quartz; 20 to 25 percent biotite; up to 10 percent sillimanite; up to 5 percent garnet; ± staurolite ± muscovite ± tourmaline ± graphite*

DPsp — *Psammopelite; medium grey to brownish grey, fine to medium grained, granoblastic, well foliated, schistose to gneissic; typically with 5 to 10 percent quartzofeldspathic leucosome; plagioclase and quartz; 10 to 15 percent biotite; up to 5 percent garnet; up to 5 percent sillimanite; ± muscovite ± tourmaline*

DPs — *Psammite; medium grey to dark grey, fine to medium grained, granoblastic, well foliated and locally lineated, gneissic; poorly layered, typically with 5 percent quartzofeldspathic leucosome; 50 percent plagioclase; 40 percent quartz; up to 10 percent biotite; ± garnet ± hornblende ± muscovite ± tourmaline ± pyrrhotite ± pyrite*

DPcs — *Calcic psammopelite; medium grey to dark grey, fine grained, equigranular, granoblastic, well foliated; thin to medium bedded; in part with abundant calc-silicate layers; intercalated with Ps and Psg; up to 25 percent hornblende, actinolite, diopside, biotite or carbonate; ± garnet ± sphene*

MILTON ISLAND ASSEMBLAGE (includes Crew Lake Belt)

Diatexite/metatexite; white, medium grey to light pink, fine to coarse grained, massive to in part strongly gneissic; heterogeneous; leucogranodiorite leucosome with relict pelitic to psammitic paleosome; in part inequigranular with neoblastic garnet or sillimanite or plagioclase; up to 40 percent each of both plagioclase and quartz; up to 25 percent biotite ± hornblende ± garnet ± K-feldspar ± sillimanite; derived from Milton Island metasedimentary assemblage

WQp — *Quartzite, psammopelite, pelite; interlayered, medium to thickly bedded bluish grey to light greenish grey, fine to medium grained, granoblastic, diopside-garnet-biotite bearing quartzite; brownish grey, fine- to medium-grained psammopelite and pelite; well foliated - lineated; well layered; biotite ± garnet ± diopside ± sillimanite*

WPcs — *Calcic psammopelite; light greenish grey to light medium grey, fine to medium grained, equigranular, granoblastic, well foliated - lineated; thin to medium bedded; 5 – 20 percent injections of leucotonalite; interlayered calc-silicate rock; up to 10 percent biotite and/or hornblende, 5 percent diopside ± sphene ± garnet*

WPs — *Psammite; medium grey, fine to medium grained, granoblastic, well foliated and locally lineated, gneissic; medium bedded; up to 50 percent pelitic and psammopelitic intercalations; minor diopside-garnet psammite and impure quartzite intercalations; typically with 5 percent tonalitic leucosome; 50 percent plagioclase; 40 percent quartz; up to 10 percent biotite; ± garnet ± hornblende ± diopside ± muscovite ± apatite ± tourmaline*

WWfe — *Ferruginous psammopelite-psammite; brownish grey to rusty brown, fine to medium grained, poorly layered; intercalations of diopside-garnet psammite, impure quartzite and iron-formation; plagioclase, quartz, biotite, muscovite and graphite; traces of pyrrhotite and pyrite*

CENTRAL METAVOLCANIC BELT - SEDIMENTARY ROCKS

CSf — *Iron-formation; white, buff to rusty brown, very fine to coarse grained, massive to well foliated; laminated to thick bedded, in part rusty; intercalated with graphitic muds and volcanic detritus; quartz rich; pyrrhotite, pyrite; ± sericite ± graphite*
CSfc - cherty
CSfi - silicate facies
CSfo - oxide facies
CSfs - sulphide facies; ± chalcopyrite ± sphalerite

CPp — *Pelite; medium grey, brownish grey, rusty brown to dark grey, fine to medium grained, well foliated; locally occurring as thinly bedded interturbidite deposits; interlayered with CSfs; 15 to 30 percent biotite; 5 to 20 percent garnet; ± hornblende ± magnetite ± cordierite ± muscovite ± graphite*

CQp — *Quartzite, psammopelite, pelite; interlayered, medium to thickly bedded bluish grey to light greenish grey, fine to medium grained, granoblastic, diopside-garnet-biotite bearing quartzite; brownish grey, fine- to medium-grained psammopelite and pelite; well foliated - lineated; well layered; biotite ± garnet ± diopside ± sillimanite*

CCs — *Calc-silicate rock; light greenish grey to medium grey, fine grained, rarely medium grained, heterogeneous, well foliated, schistose; compositionally variable from felsic to intermediate with occasional mafic intercalations, strongly banded to lenticid fabrics, in part gossanous; intercalated calcic sediments, thin bands of chert, sulphide facies iron-formation, gritty quartzite, marble and minor felsic tuffs; plagioclase, quartz, hornblende, tremolite-actinolite, diopside, garnet, carbonate, quartz; ± biotite ± graphite ± pyrite ± pyrrhotite*

CMw — *Amphibolite; pelitic greenish black to dark grey, fine grained, well foliated; laminated to thinly bedded; locally with well developed graded bedding, flame structures, channel fills and scour surfaces; in part interbedded with mafic tuffs and gradational with CUg; 25 to 50 percent amphibole, plagioclase, up to 10 percent quartz*

CPsp — *Psammopelite; medium grey to brownish grey, fine to medium grained, granoblastic, well foliated; poorly layered to thinly bedded; plagioclase, quartz, 10 to 20 percent biotite, 5 to 10 percent garnet commonly porphyroblastic, ± hornblende*

CWfe — *Ferruginous psammite; brownish grey, medium grey to rusty brown, fine grained, massive to well foliated; compositionally layered, thin to medium bedded; minor chert, silicate facies iron-formation and psammopelite intercalations; up to 15 percent biotite and/or hornblende and garnet; ± diopside ± pyrrhotite ± pyrite ± hematite ± ilmonite ± graphite*

CWg — *Wacke-argillite; dark grey, green-grey, brown-grey to black, very fine grained, weakly schistose; laminated to thinly bedded; locally with flame structures, channel scours and fills; intercalated with psammite, iron-formation, calcareous and volcaniclastic rocks; quartz, feldspar, biotite, hornblende, ± garnet ± pyrite ± pyrrhotite ± carbonaceous material*

CENTRAL METAVOLCANIC BELT - VOLCANIC ROCKS

CAv — *Altered volcanic rock; light grey, green grey to dark green, buff to rusty brown, fine to coarse grained, granoblastic, well foliated; compositionally variable from felsic to mafic; plagioclase, quartz, hornblende, biotite; ± garnet ± cummingtonite ± tremolite-actinolite ± anthophyllite ± cordierite ± pyrite ± pyrrhotite ± chalcopyrite ± magnetite*
CAva - anthophyllite-cordierite ± garnet
CAvb - anthophyllite-cummingtonite ± garnet
CAvc - cummingtonite ± garnet

CFp — *Feldspar porphyry; light grey to yellowish grey, fine grained, inequigranular with subhedral plagioclase phenocrysts from 2 to 5 mm long, locally quartz-phyric; homogeneous, massive to moderately foliated, locally protomylonitic; compositionally variable from dacitic to rhyolitic; plagioclase, quartz, microcline, up to 10 percent biotite, ± muscovite ± garnet*

CR — *Rhyolite (± rhyodacite); light grey to buff, very fine to fine grained, well foliated; laminated to thinly layered; includes ash tuff, heterolithological tuff breccia, debris flow and lava flow; plagioclase, K-feldspar, quartz, <5 percent biotite; ± garnet ± hornblende ± magnetite*

CFv — *Felsic volcanic (dacite ± rhyodacite); light grey to medium grey, very fine to fine grained, well foliated; laminated to thinly layered; largely pyroclastic rocks including ash tuff, tuff breccia, debris flow; minor lava flows; plagioclase, quartz and K-feldspar; 5 to 15 percent biotite; ± garnet ± hornblende ± magnetite ± cummingtonite ± anthophyllite*

CIv — *Intermediate volcanic rock (andesite); medium grey, greenish grey to brownish grey, very fine to fine grained, equigranular, occasionally hornblende porphyroblastic, well foliated/lineated; in part layered; largely pyroclastic rocks including tuff breccia, ash and crystal tuff; minor lava flow; up to 60 percent plagioclase; 15 to 30 percent hornblende and biotite; quartz; ± garnet ± epidote ± pyrite ± pyrrhotite*

CMv — *Mafic volcanic rock (basalt and basaltic andesite); greenish black to dark greenish grey, very fine to fine grained, uniform, well foliated; locally net-veined with carbonate and/or feldspar; rare epidosite pods; in part hornblende porphyroblastic; in part laminated to thinly bedded; largely pyroclastic rocks including ash, crystal and lapilli tuffs, and tuff breccia; minor lava flows; up to 60 percent hornblende; plagioclase; ± diopside ± garnet ± epidote ± quartz ± magnetite ± pyrite ± pyrrhotite*

CMf — *Mafic volcanic flow rock (basalt and basaltic andesite); dark green to greenish black, fine to medium grained, locally aphanitic, massive to schistose; includes massive non-phyric and plagioclase-phyric flows, possible pillowed flows and flow breccia; intercalated with units CUa, CIf, CFv*

CAm — *Amphibolite (undivided mafic volcanic and intrusive rocks); medium grey to dark greenish grey, fine to medium grained, equigranular, granoblastic, gneissic; locally injected by up to 50 percent tonalite/leucotonalite melt; 40 to 50 percent hornblende*
CAmg - garnet-rich

CCm — *Banded amphibolite; light greenish grey, dusky yellow green and greenish black, fine grained, distinctly banded, heterogeneous, in part pillowed, strongly foliated/lineated; interpreted as altered and strongly tectonized pillowed mafic flows; plagioclase; 40 to 60 percent hornblende, diopside and trem