

DEPARTMENT OF ENERGY, MINES AND RESOURCES

Geological Survey of Canada



O P E N F I L E 6 7 7

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SUMMARY DATA
ON
STRATABOUND SULPHIDE DEPOSITS
IN
THE CANADIAN CALEDONIDES
(APPALACHIANS)

1979

Compiled as a part of
the Canadian IGCP/CCSS
Project No. 60 at the
University of New Brunswick,
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INTRODUCTION

The data presented in the following tables and accompanying map are for stratabound sulphide deposits of Caledonian age in the Canadian Appalachians. For our purposes we have taken this to include those formed during late Precambrian through Devonian time. Similar data are in preparation for Sweden, Norway, East Greenland, Great Britain, Ireland and U.S.A.

The format of presentation, map symbols and nature of data are generally similar to that adopted by other participating countries.

Information has been collected from a variety of sources. For major deposits the required data is generally complete, although the size probably refers to ore mined or ore reserves rather than size of the sulphide body. For many small occurrences, little reliable information is available and consequently, many gaps occur in the tables.

Only selected titles occur in the list of references. A more complete listing, covering all Caledonian-Appalachian stratabound deposits in all countries, has been prepared separately and is available through the Geological Survey of Canada.

Map References

The geological base of the mineral occurrence map is "The Tectonic Lithofacies Map of the Appalachian Orogen", compiled at Memorial University by H. Williams with some modification by W.H. Poole, Geological Survey of Canada. Map references in the accompanying tables are for the appropriate N.T.S. topographic sheet, and certain regional mineral occurrence maps as listed below, to which the reader may refer for more details.

Larger scale geological maps generally are not listed, but certain reports containing maps are listed. Readers wishing to obtain more detailed information on geological environments should consult the more elaborate bibliography available through the Geological Survey of Canada.

Newfoundland - Maps, scale 1:250,000, showing mineral occurrences in Newfoundland are available from Mineral Development Division, Dept. of Mines and Energy, Government of Newfoundland, as follows:

Map No.

- 7622 - Botwood (N.T.S. 2E), Compiled by C. Douglas and G. Martin
- 7632 - Sandy Lake (Easthalf), Compiled by C. Douglas and E. Hsu
- 7633 - Sandy Lake (Westhalf) (N.T.S. 12H), Compiled by C. Douglas and E. Hsu
- 7624 - St. Anthony (N.T.S. 2M), Compiled by C. Douglas and E. Hsu
- 7628 - Red Indian Lake, Easthalf (N.T.S. 12A), Compiled by C. Douglas and E. Hsu
- 7629 - Red Indian Lake, Westhalf (N.T.S. 12A), Compiled by C. Douglas and E. Hsu
- 7631 - Bay of Island (N.T.S. 12G), Compiled by C. Douglas and E. Hsu
- 7630 - Stephenville (N.T.S. 12B), Compiled by C. Douglas and E. Hsu
- 7634 - Port Saunders (N.T.S. 12I), Compiled by C. Douglas and E. Hsu

New Brunswick - Reference is given to the appropriate N.T.S. 1:250,000

Topographic sheet. The following two compilation maps, available from the Dept. of Natural Resources, Province of New Brunswick, have also been utilized.

1. Map N.R.-2 - Mineral occurrence map of New Brunswick, Dept. of Natural Resources, Province of New Brunswick
2. Map N.R.-3 - Geological Map of northern New Brunswick, Scale 1:250,000 (Plate 78-20), Compiled by J.L. Davies, Dept. of Natural Resources, Province of New Brunswick

Quebec

Metallic mineralization in the Quebec Appalachians is described in "Annotated Bibliography of Metallic Mineralization in the Quebec Appalachians, 1963, and accompanying maps B-790, B-791 and B-792, as well as the more recent Metallogenic Map of Sulphide Deposits, Eastern Townships, Que., by G.A. Harron. All are available through the Dept. of Natural Resources, Quebec. The appropriate N.T.S. Topographic sheets are also listed.

EXPLANATION TO TABLES

Past or present producer

M = Presently operating mine

P = Past producer

- = Non-producer

References

Numbers refer to list of references following the tables

Mode of aggregation

M = Massive

MD = Massive with subordinate disseminated

MD = Massive and disseminated

DM = Disseminated with subordinate massive

D = Disseminated

Main Fe-sulphide (+ oxide)

Py = Pyrite

Py,Po = Pyrite with subordinate pyrrhotite

Py,Po = Pyrite and pyrrhotite

Po,Py = Pyrrhotite with subordinate pyrite

Po = Pyrrhotite

Magnetite (Mt) is indicated when essential

Analytical base*

a = Analyses of bulk ore (from selective mining)

b = Handpicked or otherwise enriched ore material (commonly from old dumps)

c = Ore grade calculation, generally based on complete diamond drilling

d = Mean of restricted number of samples

e = Single or only a few analyses (handspecimens)

* The reference system used here is to conform with the systems used in other countries. In actual fact, little data is available for many Canadian occurrences so no analytical base is indicated. For many deposits, the data are from published "ore" reserves, and is assumed to be based upon drill core analyses.

Newfoundland

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size 000's tonnes	Past or present producer	Reference.
1.	Pilley's Island	7622 (2E/12)	Victoria Anticlinorium	E. Ord.	Rhyolite, rhyolite/basalt contact, basalt	Lower greenschist	Shear zone	123	P	34
2.	Miles Cove	7622 (2E/12)	Notre Dame Bay Synclinorium	Ord.	Sheared basaltic pillow lava	Greenschist	mineral zone with mineralized q. veins	100m x 10m	P	
3.	Sleepy Hollow	7622 (2E/12)	Notre Dame Bay Synclinorium	Ord.	Schistose metabasalt	Greenschist	along schistosity		P	
4.	Atlantic Coast Copper (Little Bay)	7622 (2E/12)	Notre Dame Bay Synclinorium	E. Ord.	Chlorite schist zones in basalt	Greenschist	lenses, pods, nodules, veinlets & diss. cp, py	1545	P	26,65 102
5.	Betts Cove	7622 (2E/13)	Notre Dame Bay Synclinorium	E.Ord.	Chlorite schist zones in pillow lava	Greenschist	lenticular masses	118	P	94,102
6.	Tilt Cove	7622 (2E/13)	Notre Dame Bay Synclinorium	E.Ord.	1) andesite pillow lava 2) porphyry	Greenschist	1)dissem. stockwork 2)carb vein	7,280	P	26,91, 94,102

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. %				in ppm		Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
1.	Pilley's Island	DM	Py	45	0.67 and 2-3						100:0:0	C	
2.	Miles Cove	DM	Py, Mt									C	
3.	Sleepy Hollow		Py										
4.	Atlantic Coast Copper Little Bay	M	Py, Mt.		2.5 -1.0						100:0:0	C	
5.	Betts Cove	M	Py		10%						100:0:0	C	
6.	Tilt Cove - West	DM	Py, Mt		1.42			0.31			100:0:0	C	Ni carb vein assay: 34.1% Ni, 2.6% Co, 0.8% Fe, 24.3% As, 6.8% S; ore avg. 2%Cu

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	References
	Tilt Cove East	7622 (2E/13)	Notre Dame Bay Synclinorium	E. Ord.	Andesitic pillow lava, agglomerate	Greenschist	lenticular		-	26, 91, 94, 102
7.	Goose Cove	7624 (2M/5)	Lomond (Tectonically transported)	E. Ord.	Schist	Greenschist	bunches stringers	1.6	P	
8.	Buchans (all ore bodies)	7628 (12A/15)	Victoria Anticlinorium	Ord.	Vol. breccia & intermediate vols.	Zeolite - greenschist	Mainly tabular lenses	14,470	M	42, 95 96, 97
9.	York Harbour	7631 12G/1	Lomond (Tectonically transported)	E. Ord.	Intermediate to basic vols.	Greenschist	bands, lenses & cobbles	282	P	29, 94
10.	Lady Pond	7632 12H/9	Notre Dame Bay Synclinorium	L. Ord.	Basalt	Greenschist	lenses		P	94
11.	Gullbridge	7632 12H/1	Victoria Anticlinorium	M. Ord.	Andesitic, silicic tuffs	Cordierite-anthophyllite	pods & bands	2730	P	94, 101
12.	Little Deer	12H	Notre Dame Bay Synclinorium	E. Ord.	Chlorite schist	Greenschist	lenses & pods		P	94
13.	Whalesback	7632 12H/9	Notre Dame Bay Synclinorium	E. Ord.	Chlorite schist	Greenschist	stringers, pods, & veins	3640	P	37, 51 102
14.	McNeilly	7632 12H/9	Notre Dame Bay Synclinorium	E. Ord.	Basaltic lava & agglomerate-tuffs		veinlets, bands, lodes & dissem.		P	

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. % in ppm						Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
	Tilt Cove	M	Py, Mt, Po		2.63 4.27						100:0:0		"Appreciable" Au
7.	Goose Cove	M	Py, Po		0.95 10.18						100:0:0		1800 tons ore raised & dressed but not shipped
8.	Buchans	M	Py		1.45	15.50	07.85	1.6	110	24% Ba	6:63:31	C	Includes MacLean's, Rothmere, Lucky Strike, Engine House, Buchans River, Oriental No. 1 and Oriental No. 2 ore bodies.
9.	York Harbour	M	Py, Po		1.92	4.67					25:75:0		
10.	Lady Pond	M	Py, Po, mag										
11.	Gullbridge	M	Py, Po, mag		1%						100:0:0	C	
12.	Little Deer	M	Py, Po		0.8								
13.	Whalesback	M	Py, Po		1%						100:0:0	C	
14.	McNeilly	MD	Py, Po, Mt		1.59			tr	2.5		100:0:0		

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size 000's tonnes	Past or present producer	References
15.	Colchester	7632 12H/9	Notre Dame Bay Synclinorium	E. Ord.	Chlorite schist		dissem., blebs, stringers veins & masses	910	P	65
16.	Old English (Naked Man)	7632 12H/9	Notre Dame Bay Synclinorium	E. Ord.	Chlorite schist	Greenschist	dissem., veins & stringers		P	
17.	Rendall-Jackman	7632 12H/9	Notre Dame Bay Synclinorium	E. Ord.	Chlorite schist	Greenschist	lenses, dissem., nodules & veinlets		P	53, 94
18.	Consolidated Rambler									
a)	Big Rambler Prospect	7632 12H/16	Notre Dame Bay Synclinorium	E. Ord.	Chlorite-sericite schist	Greenschist-amphibolite		45	P	25, 38, 98
b)	Main Mine	7632 12H/16	Notre Dame Bay Synclinorium	E. Ord.	q-sericite schist	Greenschist-amphibolite	bands & streaks (dissem.)	400	P	38, 94, 98
c)	East	7632 12H/16	Notre Dame Bay Synclinorium	E. Ord.	Chlorite-sericite schist	Greenschist amphibolite	lenses	2112	P	38, 94, 98
d)	Ming	7632 12H/16	Notre Dame Bay Synclinorium	E. Ord.	Chlorite-sericite schist	Amphibolite	lenses	1440	M	38, 45, 94, 98

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. % in ppm						Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
15.	Colchester	DM	Py, Po		1.73						100:0:0	C	
16.	Old English (Naked Man)	DM	Py		1.64 8.94			0.16	39		100:0:0		
17.	Rendall-Jackman	M	Py		1%- 4.65			5			100:0:0		
18.	Consolidated Rambler												
a)	Big Rambler Prospect	M	<u>Py</u> , Po		1.61						100:0:0	C	
b)	Main	M	<u>Py</u> , Po		1.3	1.98		4.8	18.1		34:66:0	C	
c)	East	M	<u>Py</u> , Po		0.94			tr.	tr.		100:0:0	C	
d)	Ming	M	<u>Py</u> , Po		3.1			3.2	26		100:0:0	C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size 000's tonnes	Past or present producer	Reference
19.	Terra Nova	7632 12H/16	Notre Dame Bay Synclinorium	E. Ord.	chlorite-schist	Greenschist	massive banded	10	P	5
20.	Great Burnt Lake	12A/8	Noel-Paul Botwood Synclinorium		Mafic. volc.		Tabular	910		
21.	Point Leamington	7632 E 2/5	Victoria Synclinorium	M. Ord.	Pillowed Basalt, acid volc.		Lens	16,562		94
22.	Mud Pond	7632 12H/16	Stable craton							
23.	Tulk's Pond	12A/11	Gander Zone	Ord.	Acid volc.					19

[illegible]

Map no.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	Refer ences
24.	Mindamar (Stirling)	11F/9	Avalon	Late Pg (?)	Siliceous siltstone (exhalites) Flows and pyroclastics of felsic to inter- mediate composi- tions; Fe-Mg car- bonates; talc; intermediate sills and dykes	Lower Green- schist	Irregular lenses	1,150	P	20, 52, 81, 103 104, 105 <i>L.J. Weeks GSC Mem</i>

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. % in ppm						Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
24.	Mindamar (Stirling)	MD	Py		.74	6.3	1.5	9.4	68.7	Bi	9:74:17	C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	References
25.	Teahan	21 P	Avalon	L. Pg.	Tuffaceous seds., acids & basic flows	Greenschist	Tabular lense	123	--	7,48, 87
26.	Annidale	21 G	Fredericton Synclinorium	Ord. or Sil.	Andesite flows, chlorite tuff	Greenschist	Tabular shoots		--	30,86
27.	Brunswick 12	21 P	Miramichi Anticlinorium	M. Ord	Chlorite sediment and oxide-carbonate iron formation in acid pyroclastic	Greenschist	Folded bed	109, 200	M	1,8,22, 50,59, 63,68, 69
28.	Brunswick 6	21 P	Miramichi Anticlinorium	M. Ord	Chloritic and oxide iron formation in acid pyroclast	Greenschist	Folded bed	18,200	M	9,22, 50,58, 59,60
29.	Heath Steele B	21 P	Miramichi Anticlinorium	M. Ord	Chloritic and oxide iron formation in acid pyroclast	Greenschist	Folded bed	27,300	M	4,24, 39,68, 69,71, 72,106
30.	Heath Steele A, C,D,E,F	21 O	Miramichi Anticlinorium	M. Ord	Chloritic and oxide iron formation in acid pyroclast	Greenschist	Folded bed	7,500	M	24,39 72,106
31.	Wedge	21 O	Miramichi Anticlinorium	M. Ord	Felsic pyroclastic, graphitic, argillaceous, arenaceous sediments	Greenschist	Folded Bed	1,456	P	17,27, 50,69 73

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. %				in ppm		Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
25.	Teahan	MD	Py		0.46	1.46					24:76	C	
26.	Annidale	MD	Py										
27.	Brunswick 12	MD	Py, Po, Mt		0.38	9	4		64		3:67:30	C	
28.	Brunswick 6	MD	Py, Po, Mt		0.37	5.6	2.4		59		4:67:29	C	
29.	Heath Steele B	M	Py, Po, Mt		1.0	5.52	2.13		68		12:64:24	C	
30.	Heath Steele A	M	Py, Po, minor Mt		0.36	7.45	2.77		75		3:70:27	C	
	C	M			1.93	1.08	0.36		45		57:32:11		
	D	M			1.11	5.55	0.78		42		15:75:10		
	E, F	M			1.56	4.33	1.95		75		20:55:25	C	
31.	Wedge	M	Py		2.4	1.75	0.4		10		53:38:9	C	

Map o.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	Refer ences
32.	Caribou	21 O	Miramichi Anticlinorium	M. Ord.	Chloritic sediment in acid pyroclast	Greenschist	Folded bed	44,590	P	11,13, 23,50, 68,69, 85
33.	Chester (Clearwater)	21 O	Miramichi Anticlinorium	M. Ord.	Chlorite schist in quartz sericite schist	Greenschist		16,380	--	35,69, 78
34.	Key Anacon	21 P	Miramichi Anticlinorium	M. Ord.	Siliceous volc.- metaseds. over basalt	Greenschist	Lens	1,859	-	69,88
35.	Restigouche	21 O	Miramichi Anticlinorium	M. Ord.	Acid pyroclastics	Greenschist	Lens	2,366	-	46
36.	Murray Bk.	21 O	Miramichi Anticlinorium	M. Ord.	Chloritic siltstone minor iron fm.		Lens	20,930	-	36
37.	Half Mile N Half Mile	21 O	Miramichi Anticlinorium	M. Ord.	Chloritic siltstone minor iron fm.	Greenschist		6,370	-	50,69
38.	Austin Bk.	21 P	Miramichi Anticlinorium	M. Ord.	Oxide and chlorite iron formation in acid pyroclast	Greenschist	Folded bed	728	-	21,69
39.	Orvan Bk.	21 O	Miramichi Anticlinorium	M. Ord.	(Felsic) acid pyro. graphitic sediment minor iron formation and basaltic tuff	Greenschist	Tabular	1	-	50,62, 69,99

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. % in ppm						Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
32.	Caribou	M	Py, Po		0.47	7.78	1.7	1.5	55	0.45/As	5:78:17	C	Copper produced from oxidized and supergene zone
33.	Chester	MD	Py, Po		0.77	2.12	0.8				21:57:22	C	
34.	Key Anacon	M	Py, Po		0.2	7.43	3.03		80		5:68:27	C	
35.	Restigouche	MD	Py		0.34	5.9	4.6		78		3:54:43	C	Bulk conc. %-19Pb 2.82 Zn., 1.2 Cu, 0.05 Cd, 15 Fe 0.4 As 0.006 Sn. A909 oz/T.
36.	Murray Bk.	M	Py, Mt	34.5	0.44	1.95	0.86	0.35	29		14:60:26	C	
37.	Half Mile Lake		Py, Po	0	0.39	6.57	2.49				4:70:26	C	
	Half Mile Lake (N)	M	Py, Po		0.44	6.01	0.79		65		6:83:11	C	
38.	Austin Bk.	M	Py, Po, Mt			2.9	1.86		32		0:61:39	C	
39.	Orvan Bk.	M	Py, Mt			6.3	3.25	0.3	32		0:66:34	C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	Reference
40.	Rocky Turn	21 O	Miramichi Anticlinorium	M. Ord.	Acid metatuff and graphitic sediments	Greenschist	Tabular	255	-	
41.	Headway	21 P	Miramichi Anticlinorium	M. Ord.	Fg. metarhyolitic tuff, q-f augen schist	Greenschist	Tabular	273	-	
42.	Captain	21 P	Miramichi Anticlinorium	M. Ord.	Chlorite-quartz rocks at contact between metarhyolite tuff and q-f augen schist	Greenschist	Tabular	273	-	69,10C
43.	McMaster	21 O	Miramichi Anticlinorium	M. Ord.	Chlorite-sericite schist with graphitic schist	Greenschist	Tabular	183	-	
44.	Armstrong A Armstrong B	21 O	Miramichi Anticlinorium	M. Ord.	Acid metatuff with thin graphitic beds, q-f augen schist	Greenschist	Lense	3185	-	79
45.	Nepisiguit A, B and C	21 O	Tetagouche Gp. Miramichi Zone	M. Ord.	Slate new contact metabasalt and metagabbro	Greenschist	Tabular	2640	-	69
46.	Canoe Landing Lake	21 O	Tetagouche Gp. Miramichi Zone	M. Ord.	Slate new contact with metabasalt and metagabbro	Greenschist		2730	-	

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. % in ppm						Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
40.	Rocky Turn	M	Py		0.3	7.0	1.5	21.6	73		3:80:17	C	
41.	Headway	M/D	Py		1.3	5.5	2.7		21		14:58:28	C	
42.	Captain	M	Py		2.0			0.6	10		100:0:0	C	
43.	McMaster	M-D	Py, Po		0.7				3		100:0:0	C	
44.	Armstrong A,B	M-D	Py		0.29	2.29	0.42	0.6	2.2		10:76:14	C	
45.	Nepisiguit A B C	M	Py		0.4	2.8	0.6		9.0		10:74:16	C	
			Py		0.1	1.9	0.4		9.0		4:80:16	C	
			Py		0.4	2.1	0.7		19.0		12:66:22	C	
46.	Canoe Landing Lake	M	Py		0.5	1.5	0.5	1.6	48		20:60:20	C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size 000's tonnes	Past or present producer	References
47.	Flat Landing Brook	21 P	Tetagouche Gp. (Miramichi Zone)	M. Ord.	Acid pyroclastic chloritic and oxide iron formation	Greenschist		1365	-	
48.	Stratmat Main Zone, West Zone	21 O	Tetagouche Gp. (Miramichi Zone)	M. Ord.	Rhyolite tuff in contact with metabasalt and metagabbro	Greenschist	Lense	1090 730	-	49,69
49.	North Boundary N-5	21 O	Tetagouche Gp. (Miramichi Zone)	M. Ord.	Rhyolite tuff in contact with metabasalt and metagabbro	Greenschist	Lense	455	-	
50.	Devil's Elbow	21 O	Miramichi Anticlinorium	M. Ord.	Chlorite schist in quartz-chlorite schist near q-f augen schist	Greenschist	Lens	455	-	61,69
51.	Nine Mile Brook	21 P	Miramichi Anticlinorium	M. Ord.	Contact between metarhyolite tuff and graphitic and maroon slate, iron formation	Greenschist	Folded bed	135	-	43
52.	Quebec Smelting & Refining	21 P	Miramichi Anticlinorium	M. Ord.	Metarhyolite tuff and q-f augen schist minor feldspar	Greenschist	Tabular	91	-	93
53.	California Lake	21 O	Miramichi Anticlinorium	M. Ord.	Graphitic slate in acid pyroclasts	Greenschist		91	-	

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. %				in ppm		Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
47.	Flat Landing Brook	MD	Py		0.03	4.9	0.94		19		1:83:16	C	
48.	Stratmat Main West	MD DM	Py, Po		1.0	3.0 9.5	1.0 4		19 38		20:60:20 0:70:30	C C	
49.	North Boundary N-5	DM	Py		0.6	9.0	3.0		48		5:71:24	C	
50.	Devil's Elbow	MD	Py		1.0						100:0:0	C	
51.	Nine Mile	MD	Py		0.42	1.0	1.23		85		16:38:46	C	
52.	Quebec Smelting & Refining	MD	Py			x	x					C	
53.	California Lake	M	Py		x	3	x				0:100:0	C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size 000's tonnes	Past or present producer	References
54.	Indian Falls (Fronsac)	21 O	Miramichi Anticlinorium	M. Ord.	Acid pyroclastics with qtz.-feld. augen schist	Greenschist		91	-	
55.	Ahearn Brook	21 O	Miramichi Anticlinorium	M. Ord.	Metarhyolite tuff with interbeds of maroon slate	Greenschist		91	-	
56.	Strachens Lake Brook	21 O	Miramichi Anticlinorium	M. Ord.	Acid metatuff	Greenschist		91	-	
57.	Portage Lake	21 O	Miramichi Anticlinorium	M. Ord.	Thinly interbedded acid tuff and meta overlain by meta basalt	Greenschist				
58.	Roche Long Lac.	21 P	Miramichi Anticlinorium	M. Ord.	Metarhyolite tuff with calcareous fossiliferous volcanogenic sed.	Greenschist	Folded bed	182	-	
59.	Taylor Brook	21 P	Miramichi Anticlinorium	M. Ord.		Greenschist			-	
60.	Nash Creek	21 P	Aroostook-Matapedia Anticlinorium	Dev.	Volcanic	Low. Greenschist Schist	(A) Lens (B) stratiform	0.1	-	

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. %				in ppm		Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
54.	Indian Falls	D/M	Py			x	x					C	
55.	Ahearn Brook	M/D	Py			x	x		x			C	Very narrow, small high grade
56.	Strachans Lake	M/D	Py		0.47	2.54	0.45		x		14:73:13	C	
57.	Portage Lake	D/M	Py										
58.	Roche Long Lac.		Py										
59.	Taylor Brook		Py										
60.	Nash Creek	M-D	Py									C	Low copper, High Pb, Zn, Ag

Quebec

Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	Reference
Clinton Copper	21 E	Quebec Anticlinorium (Boundary Mtn. Anticlinorium)	M. Ord.	Mixed volc., chlorite schist	cord.-anth. (contact metam.) Regional metam. is greenschist	Tabular	1640	-	14,15, 44,56, 6,80, 107
Upton	31 H	Quebec Anticlinorium (Klippen Belt)	Camb.-Ord.	Arg. cherty ls. over mafic volc.	Greenschist	Veins & layers	750	-	3,44, 60,107
Cupra D'estrie	21E/14	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mafic meta volc. Felsic meta pyroclastics	Greenschist	Tabular	3006	P	2,3,31, 32,40, 44,57, 68
Lingwick	21E/11	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed volc.	Greenschist		318	P	44
Eustis	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed volc.	Greenschist	Tabular lenses	2275	P	2,44, 74,75, 90,92
Albert (Capelton Mines)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed volc.	Greenschist	Tabular	300		2,44, 47,74, 75,90
Wheal Betsy (Capelton Mines)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed volc.	Greenschist	Tabular	38	P	2,44, 47,74, 75,90

p.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. %				in ppm		Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
	Clinton Copper	M	Py		2.02	1.54			15.6		57:43	C	Possibly epigenetic
	Upton	D	Py			2.2			0.44		0:100:0	C	
	Cupra D'estrie	M	Py, Mt		2.78	3.17	0.50	0.05	0.98		43:48:9	C	
	Lingwick				0.6	6.0	-		15.6		9:91:0	C	
	Eustis	M	Py		3.4%						100:0:0	C	
	Albert (Capelton Mines)	M	Py		3.0%							C	High grade copper
	Wheal Betsy (Capelton Mines)											C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	References
	Capel (Capelton Mines)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed acid-basic volc.	Greenschist	Tabular	35	-	2,6,44, 47,74,75, 90
67.	Howard (Gillis)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed volc.	Greenschist	Tabular	.45	-	2,44,47, 75,90
68.	Lake Memhremagog (Smith's or Pottton Mine)	131H/01	Quebec Anticlinorium (Serpentine Belt "B")	L. Ord.	Mafic Volc. (Ophiolites)		Lens	20	-	6,44
69.	Ely (Sheffield Copper Mines)		Quebec Anticlinorium (Serpentine Belt "A")						-	6,44
70.	Ives	31H/10	Quebec Anticlinorium	L. Ord.	Mafic volc. (Ophiolites)				-	44
71.	Acton	31 H	Quebec Anticlinorium (Klippen Belt)	Camb.- L. Ord.	In carbonate chert over mafic volc.	Greenschist	Veins and lens	15	P	44,47,54, 60,107
72.	King	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed acid-basic volc.	Greenschist	Tabular	.91	-	2,28,44, 47,74, 107
73.	Silver Star (The Bean)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Sericite schist		Tabular		-	2,28,44, 47,74, 107

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Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	References
74.	Harvey Hill (Marval Mines Inc., Metaline)	21E/05	Quebec Anticlinorium (Serpentine Belt "A")	E. Cam.	Talc-chlorite-sericite layer	Greenschist		550	P	6,44
75.	Solbec Copper	21E/14	Quebec Anticlinorium (Stoké Mtn. Belt)	E. Ord.	Mixed volc. some pellicite greywacke	Greenschist	Tabular lenses	2200	P	2,32,28, 40,44,56, 90
76.	Weedon	21E/11	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Pyroclastics, mafic metavolc., felsic meta pyroclastics. Intruded by younger granite	Cord.-Anth. (Contact metam.) Regional metam. is greenschist	Tabular	1775	P	2,31,28, 44,57, 68,90
77.	Suffield (Griffith)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Acid volc.	Greenschist	Tabular	900	P	2,6,10, 44,47,74, 90
78.	Aldermac-Moulton Hill	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Mixed volc.-ser. chlorite schist	Greenschist	Tabular	975	P	2,44,47, 54,74, 89,90
79.	Huntingdon (Quebec Copper Corp.)	31H/08	Quebec Anticlinorium (Serpentine Belt)	E. Ord.	Mafic volc. (Ophiolites)	Greenschist	Tabular	2000	P	12, 18, 44,77, 90,107
80.	Ascot (Haskell Hill)	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Chlorite schist	Greenschist	Tabular	730	P	3,6,28 44,47, 75,90

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. % in ppm						Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
74.	Harvey Hill (Marval Mines Inc., Metalline)	D			1.8				15.6		100:0:0	C	
75.	Solbec Copper	M	Py		2.19	4.06	0.54	25	1715		32:60:8	C	
76.	Weedon	M	Py + Mt	-	3.57	+0.5	min.	12.5	437			C	
77.	Suffield (Griffith)	MD	Py		1.28	6.45	0.59	21.8	2994		15:78:7	C	
78.	Aldermac-Moulton Hill	MD	Py		1.55	7.28	2.60	128	2183	Ba	13:64:23	C	
79.	Huntingdon (Sullico Mines Ltd.)	D	Po		0.9							C	
80.	Ascot (Haskell Hill)	M	Py+		8							C	

Map No.	Name of deposit	Map sheet	Tectonic unit or position	Age	General host rock lithology	Metamorphic grade	Shape	Size	Past or present producer	References
81.	Clark	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Sericite schist from acid volcanics	Greenschist	Lens	-	-	2,6,28, 44,47,54, 74,90
82.	Hepburn	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Sericite schist from acid volcanics		Tabular		-	2,28,44, 47,54,74, 90
83.	Victoria	21E/05	Quebec Anticlinorium (Stoke Mtn. Belt)	E. Ord.	Acid metapyroclastics	Greenschist	Lens	.91	P	
84.	Wickham	31 H	Quebec Anticlinorium (Klippen Belt)	E. Ord.	Limestone or dolomite				P	44
85.	Durham	31 H	Quebec Anticlinorium (Klippen Belt)		Limestone				-	44
86.	Eastern Metals (St. Fabien Copper)	21 L	Quebec Anticlinorium (Serpentine Belt) "B")	E. Ord.	Serp. and siltstone		Tabular	955	-	
87.	Beaupas	31 H	Quebec Anticlinorium (Klippen Belt)	E. Ord.						44
88.	Panet Metals	21 L	Quebec Anticlinorium	E. Ord.	Slates		Lenses	270	-	44

Map No.	Name of deposit	Mode of aggr. M/D	Main Fe-sulphide (+ oxide)	Grade in Wt. %				in ppm		Other element of spec. int.	Cu:Zn:Pb prop.	Analytical base	Comments
				S	Cu	Zn	Pb	Au	Ag				
81.	Clark	M	Py		3.5							C	
82.	Hepburn	M	Py		7-8							C	
83.	Victoria	M	Py		.75 -3							C	
84.	Wickham		Py		7-8								Possibly epigenetic
85.	Durham		Py										Possibly epigenetic
86.	Eastern Metals	D	Py,Po		1.08						100:0:0	C	
87.	Beaupas		Py										Possibly epigenetic
88.	Panet Metals	D	Py,Po		0.40	2.67	0.43	2.4	23		11:76:13	C	

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