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DETAILED OUTCROP AND CORE MEASURED SECTIONS OF THE UPPER
ORDOVICIAN/LOWER SILURIAN SUCCESSION OF SOUTHERN ONTARIO

By

A.P. Hamblin

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INTRODUCTION

During the period 1998-2001 I initiated a study of the Upper Ordovician/Lower Silurian strata of southwestern Ontario with the object of more clearly delineating the regional stratigraphic, sedimentological and resource potential framework of the Taconian Foreland Succession of the Appalachian Basin. These rocks have received only modest attention in recent decades but represent a key geologic interval in the earth history of this heavily populated area. This work was encouraged by T. Carter of Ministry of Natural Resources, and D. Armstrong of Ontario Geological Survey, who also assisted with extensive discussions in the field and core lab.

These rocks have economic value due to the enclosed a) oil and gas, b) building and landscape stone, and c) bricking and pottery clay; all important resources in the southern Ontario local market. Scientifically, they are important because they document two stacked major third-order Transgressive-Regressive sequences, within the Tippecanoe Sequence, which filled the Appalachian Basin as a result of the Taconian Orogeny. The presence of basinwide stacked coarsening-upward, shallowing-upward fourth-order fill sequences throughout the succession can be identified, mapped and related to both the tectonic history and the resource potential.

A total of 104 outcrop and 16 subsurface core sections were measured, ranging from 1 m to 525 m in length and totalling 5008 m of descriptive logs: by far the most extensive and detailed data set of its kind for these rocks. This study is also the first attempt to integrate surface and subsurface rock sections of this age on a regional basis. Additionally, this initial work includes the largest paleocurrent data set to date (722 measurements). A collection of 105 subsurface well logs, from scattered deep wells, and covering the interval of interest, have been assembled, but not yet analyzed and compared to the surface outcrop sections. Analysis, synthesis and interpretation of this data is not yet complete but will continue and eventually lead to a GSC Bulletin detailing the stratigraphy, sedimentology and resource potential of the Upper Ordovician/Lower Silurian succession.

I thank Jeff Reimer for all that detailed drafting. Peter Neelands, Joanna Monro Gray and Graham Lai assisted with production of the publication.

Table 1A. Corehole sections of Upper Ordovician/Lower Silurian measured, 1998-2001

CORE NAME	FORMATIONS	THICKNESS
Nobleton #1	Collingwood-Blue Mountain	25 m
S.I.S. #4	Collingwood-Blue Mountain-Georgian Bay	125 m
Clgd #2	Collingwood-Blue Mountain-Georgian Bay	86 m
Corbetton #1 (Shelburne)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Whirlpool-Manitoulin-Cabot Head	341 m
OGS 83-1 (Milton)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Whirlpool-Manitoulin-Cabot Head-Reynales	440 m
OGS 83-2 (Clarkson)	Collingwood-Blue Mountain-Georgian Bay	230 m
OGS 83-3 (Pickering)	Collingwood-Blue Mountain	25 m
OGS 82-1 (Courtright)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Manitoulin-Cabot Head-Reynales-Rochester	264 m
OGS 82-2 (Chatham)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Manitoulin-Cabot Head-Reynales-Irondequoit-Rochester	325 m
OGS 82-3 (Port Stanley)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Manitoulin-Cabot Head-Fossil Hill-Rochester	420 m
OGS 82-4 (Wiarnton)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Manitoulin-Cabot Head-Dyer Bay-Wingfield-Fossil Hill	256 m
US Steel #1 (Port Dover)	Collingwood-Blue Mountain-Georgian Bay-Queenston-Whirlpool-Manitoulin-Cabot Head-Grimsby-Thorold-Reynales-Irondequoit-Rochester	525 m
Richardson #522-25 (Wiarnton)	Georgian Bay-Queenston-Manitoulin-Cabot Head-Fossil Hill	135 m
Anschutz Lake Erie 6-R	Queenston-Whirlpool-Cabot Head-Grimsby-Thorold-Reynales-Irondequoit	46 m
Anschutz Lake Erie 22-S-4	Queenston-Whirlpool-Cabot Head-Grimsby-Thorold-Reynales-Irondequoit-Rochester	64 m
Place Dover 2A	Whirlpool-Cabot Head-Grimsby-Thorold-Reynales	35 m

Table 1B. Locations of corehole sections of Upper Ordovician/Lower Silurian measured in 1998-2001.

OUTCROP NAME	LATITUDE/ LONGITUDE	1:50000 NTS SHEET	GRID LOCATION/ BLOCK
Nobleton #1	43°58'N/79°35'W	30M/13 Bolton	139701
S.I.S. #4	43°41'N/79°22'W	30M/11 Toronto	317382
Clgd #2	41°31'N/80°26'W	41A/9 Nottawasaga Bay	453298
Corbetton #1 (Shelburne)	44°09'N/80°21'W	41A/1 Dundalk	517877
OGS 83-1 (Milton)	41°32'N/79°58'W	30M/12 Brampton	838212
OGS 83-2 (Clarkson)	43°30'N/79°38'W	30M/5 Hamilton-Burlington	109168
OGS 83-3 (Pickering)	43°49'N/79°03'W	30M/14 Markham	561534
OGS 82-1 (Courtright)	42°45'N/82°30'W	40J/16 Sarnia	
OGS 82-2 (Chatham)	43°20'N/82°05'W	40J/8 Chatham	
OGS 82-3 (Port Stanley)	42°40'N/81°10'W	40L/11 Port Stanley	
OGS 82-4 (Wiarnton)	44°50'N/81°13'W	41A/14 Cape Croker	829578
US Steel #1 (Port Dover)	42°40'N/80°20'W	40I/9 Long Point	
Richardson #522-25 (Wiarnton)	44°53'N/81°10'W	41A/14 Cape Croker	865698
Anschutz Lake Erie 6-R	42°50'N/79°25'W	30L/14	Block 6-Tract R-Qtr 4
Anschutz Lake Erie 22-S-4	42°45'N/79°30'W	30L/13	Block 22-Tract S- Qtr 4
Place Dover 2A	42°45'N/80°10'W	40I/9	Block 14-Tract W- Qtr 2

Table 2A. Outcrop sections of Upper Ordovician strata measured in 1998.

OUTCROP NAME	FORMATION	THICKNESS
Bowmanville Quarry	Collingwood	4.5 m
Oshawa Ck, Mill St. Bridge	Collingwood	2.5 m
Duffins Ck, Deckers Hill	Blue Mountain	4 m
Rouge R., Rouge Park	Blue Mountain	1 m
Rouge R., Glen Huron	Blue Mountain	2.7 m
Don Valley Brickpit	Georgian Bay	4.4 m
Mimico Ck., Royal York Rd.	Georgian Bay	6.4 m
Humber R., S. of Lawrence Av.	Georgian Bay	5.0 m
Humber R., Lambton Mills	Georgian Bay	10.2 m
Humber R., Old Mill	Georgian Bay	7.4 m
Etobicoke Ck., S. of Eglinton Av.	Georgian Bay	10.6 m
Etobicoke Ck., S. of Rathburn Rd.	Georgian Bay	7.3 m
Etobicoke Ck., Queensway Bridge	Georgian Bay	6.2 m
Credit R., Eglinton Av.	Georgian Bay	10.9 m
Credit R., S. of Burnhamthorpe Rd.	Georgian Bay	9 m
Credit R., S. of Dundas St.	Georgian Bay	8.1 m
Credit R., Main St. Bridge, Streetsville	Georgian Bay	2.7 m
Credit R., W. of Huttonville	Queenston	4.8 m

Table 2B. Locations of outcrop sections of Upper Ordovician strata measured in 1998.

OUTCROP NAME	LATITUDE/ LONGITUDE	1:50000 NTS SHEET	GRID LOCATION/ BLOCK
Bowmanville Quarry	43°53'N / 78°42'W	30 M/15 Oshawa	850616
Oshawa Ck, Mill St. Bridge	43°53'N / 78°52'W	30 M/15 Oshawa	717613
Duffins Ck, Deckers Hill	43°52'N / 79°03'W	30 M/14 Markham	555595
Rouge R., Rouge Park	43°48'N / 79°08'W	30 M/14 Markham	485526
Rouge R., Glen Huron	43°48'N / 79°08'W	30 M/14 Markham	487518
Don Valley Brickpit	43°41'N / 79°22'W	30 M/11 Toronto	316383
Mimico Ck., Royal York Rd.	43°38'N / 79°30'W	30 M/12 Brampton	205325
Humber R., S. of Lawrence Av.	43°42'N / 79°31'W	30 M/12 Brampton	199392
Humber R., Lambton Mills	43°40'N / 79°31'W	30 M/12 Brampton	199356
Humber R., Old Mill	43°39'N / 79°29'W	30 M/11 Toronto	218338
Etobicoke Ck., S. of Eglinton Av.	43°39'N / 79°36'W	30 M/12 Brampton	124333
Etobicoke Ck., S. of Rathburn Rd.	43°39'N / 79°35'W	30 M/12 Brampton	139332
Etobicoke Ck., Queensway Bridge	43°37'N / 79°34'W	30 M/12 Brampton	155296
Credit R., Eglinton Av.	43°34'N / 79°42'W	30 M/12 Brampton	055249
Credit R., S. of Burnhamthorpe Rd.	43°33'N / 79°40'W	30 M/12 Brampton	076236
Credit R., S. of Dundas St.	43°32'N / 79°39'W	30 M/12 Brampton	088220
Credit R., Main St. Bridge, Streetsville	43°35'N / 79°43'W	30 M/12 Brampton	043263
Credit R., W. of Huttonville	43°39'N / 79°49'W	30 M/12 Brampton	953332

Table 3A. Outcrop sections of Upper Ordovician/Lower Silurian strata measured in 1999

OUTCROP NAME	FORMATION	THICKNESS
Streetsville Quarry	Queenston	15 m
Credit River, Georgetown RR	Queenston	8 m
Credit River, Georgetown Dynamo	Queenston	9 m
Queenston Badlands	Queenston	20 m
Terra Cotta Roadcut	Queenston-Whirlpool	5 m
Terra Cotta Badlands	Queenston	13 m
Hilltop Quarry	Whirlpool	7 m
Vincent Quarry	Whirlpool	7 m
Rice and McHarg Quarry	Whirlpool	4 m
Milton Heights Quarry	Queenston	12 m
Sixteen Mile Creek, Glenorchy	Queenston	7 m
Cheltenham Quarry	Queenston	8 m
Sixteen Mile Ck Roadcut, Glenorchy	Queenston	13 m
Sixteen Valley Conservation Area	Queenston	9 m
Credit River, Norval	Queenston	8 m
Bronte Creek, Zimmerman Bridge	Queenston	6 m
Bronte Creek Quarry	Queenston	11 m
Bronte Creek Provincial Park	Queenston	33 m
Sixteen Mile Ck, Lion's Valley Park	Queenston	20 m
Sixteen Mile Creek, Cross Ave	Georgian Bay	20 m
Sixteen Mile Creek, Golf Club	Georgian Bay-Queenston	13 m
Sixteen Mile Creek, Sunningdale	Queenston	29 m
Sixteen Mile Creek, Dorval Rd.	Queenston	11 m
Bronte Creek, QEW	Queenston	16 m
King Road Quarry, Burlington	Queenston	10 m
Grindstone Falls	Queenston-Whirlpool	13 m
Rock Chapel	Grimsby-Thorold-Reynales-Irondequoit-Rochester	19 m
Sydenham Rd	Cabot Head-Grimsby-Thorold-Reynales-Irondequoit-Rochester	20 m

Webster's Falls	Grimsby-Thorold-Reynales-Irondequoit-Rochester	14 m
Highway 403 Roadcut	Queenston-Whirlpool-Manitoulin-Cabot Head-Grimsby-Thorold-Reynales-Irondequoit	34 m
Jolley Cut	Queenston-Whirlpool-Manitoulin-Cabot Head-Grimsby-Thorold-Reynales-Irondequoit-Rochester	41 m
Red Hill Creek	Queenston	10 m
Albion Falls	Grimsby-Thorold-Reynales-Irondequoit-Rochester	18 m
Devil's Punchbowl	Queenston-Whirlpool-Manitoulin-Cabot Head-Grimsby-Thorold-Reynales-Irondequoit-Rochester	54 m
Dewitt Road	Grimsby-Thorold-Reynales-Irondequoit-Rochester	18 m
Beamer's Falls	Grimsby-Thorold-Reynales-Irondequoit-Rochester	19 m
Merriton RR Cut	Thorold-Reynales	6 m
Niagara River, Queenston	Queenston-Whirlpool	25 m
Sir Adam Beck Power Station Roadcut	Queenston-Whirlpool-Manitoulin-Cabot Head-Grimsby-Thorold-Neahga-Reynales-Irondequoit-Rochester	61 m
Ball's Falls	Queenston-Whirlpool-Manitoulin-Cabot Head-Grimsby-Thorold-Reynales	43 m
Rockway Falls	Grimsby-Thorold-Reynales-Irondequoit-Rochester	23 m
Decew Falls	Rochester	4 m
Niagara River, The Whirlpool	Whirlpool	9 m

Table 3B. Locations of outcrop sections of Upper Ordovician/Lower Silurian strata measured in 1999

OUTCROP NAME	LATITUDE/ LONGITUDE	1:50000 NTS SHEET	GRID LOCATION/ BLOCK
Streetsville Quarry	43°35'N / 79°44'W	30 M/12 Brampton	022261
Credit River, Georgetown RR	43°40'N / 79°53'W	30 M/12 Brampton	892345
Credit River, Georgetown Dynamo	43°40'N / 79°54'W	30 M/12 Brampton	881349
Queenston Badlands	43°46'N / 79°57'W	30 M/13 Bolton	849472
Terra Cotta Roadcut	43°44'N / 79°57'W	30 M/12 Brampton	851428
Terra Cotta Badlands	43°42'N / 79°57'W	30 M/12 Brampton	842397
Hilltop Quarry	43°41'N / 79°57'W	30 M/12 Brampton	843384
Vincent Quarry	43°37'N / 79°59'W	30 M/12 Brampton	844308
Rice and McHarg Quarry	43°37'N / 79°59'W	30 M/12 Brampton	824310
Milton Heights Quarry	43°31'N / 79°55'W	30 M/12 Brampton	872180
Sixteen Mile Creek, Glenorchy	43°28'N / 79°48'W	30M/5 Hamilton-Burlington	970142
Cheltenham Quarry	43°44'N / 79°55'W	30 M/12 Brampton	858435
Sixteen Mile Ck Roadcut, Glenorchy	43°29'N / 79°46'W	30M/5 Hamilton-Burlington	991152
Sixteen Valley Conservation Area	43°30'N / 79°40'W	30M/5 Hamilton-Burlington	990171
Credit River, Norval	43°39'N / 79°51'W	30 M/12 Brampton	930335
Bronte Creek, Zimmerman Bridge	43°30'N / 79°51'W	30M/5 Hamilton-Burlington	935090
Bronte Creek Quarry	43°25'N / 79°47'W	30M/5 Hamilton-Burlington	969078
Bronte Creek Provincial Park	43°25'N / 79°46'W	30M/5 Hamilton-Burlington	993073
Sixteen Mile Ck, Lion's Valley Park	43°28'N / 79°45'W	30M/5 Hamilton-Burlington	010126
Sixteen Mile Creek, Cross Ave	43°27'N / 79°41'W	30M/5 Hamilton-Burlington	061120
Sixteen Mile Creek, Golf Club	43°27'N / 79°42'W	30M/5 Hamilton-Burlington	050119
Sixteen Mile Creek, Sunningdale	43°28'N / 79°43'W	30M/5 Hamilton-Burlington	035125
Sixteen Mile Creek, Dorval Rd.	43°27'N / 79°42'W	30M/5 Hamilton-Burlington	046117
Bronte Creek, QEW	43°21'N / 79°44'W	30M/5 Hamilton-Burlington	021069

King Road Quarry, Burlington	43°20'N / 79°50'W	30M/5 Hamilton-Burlington	932989
Grindstone Falls	43°19'N / 79°53'W	30M/5 Hamilton-Burlington	902979
Rock Chapel	43°17'N / 79°56'W	30M/5 Hamilton-Burlington	864936
Sydenham Rd	43°17'N / 79°57'W	30M/5 Hamilton-Burlington	849920
Webster's Falls	43°16'N / 79°59'W	30M/5 Hamilton-Burlington	827918
Highway 403 Roadcut	43°15'N / 79°56'W	30M/4 Hamilton-Grimsbey	865886
Jolley Cut	43°15'N / 79°52'W	30M/4 Hamilton-Grimsbey	926887
Red Hill Creek	43°14'N / 79°47'W	30M/4 Hamilton-Grimsbey	987875
Albion Falls	43°12'N / 79°49'W	30M/4 Hamilton-Grimsbey	960838
Devil's Punchbowl	43°13'N / 79°46'W	30M/4 Hamilton-Grimsbey	850010
Dewitt Road	43°13'N / 79°43'W	30M/4 Hamilton-Grimsbey	041846
Beamer's Falls	43°11'N / 79°31'W	30M/4 Hamilton-Grimsbey	161822
Merriton RR Cut	43°09'N / 79°12'W	30 M/3/6 Niagara	776468
Niagara River, Queenston	43°10'N / 79°03'W	30 M/3/6 Niagara	587808
Sir Adam Beck Power Station Roadcut	43°08'N / 79°03'W	30 M/3/6 Niagara	581776 -- 591785
Ball's Falls	43°08'N / 79°23'W	30 M/3/6 Niagara	317771
Rockway Falls	43°07'N / 79°20'W	30 M/3/6 Niagara	364745
Decew Falls	43°07'N / 79°16'W	30 M/3/6 Niagara	410745
Niagara River, The Whirlpool	43°07'N / 79°04'W	30 M/3/6 Niagara	571763

Table 4A. Outcrop sections of Upper Ordovician/Lower Silurian strata measured in 2000

OUTCROP NAME	FORMATION	THICKNESS
Mono Mills Roadcut	Whirlpool	4 m
Hockley Roadcut	Queenston	14 m
Glen Cross	Queenston	4 m
Cataract	Queenston-Whirlpool-Cabot Head	38 m
Aldershot Quarry	Queenston	20 m
Mono Centre Roadcut	Queenston-Whirlpool	7 m
Whitfield Roadcut	Queenston	11 m
Perm Roadcut	Queenston	6 m
Mansfield Roadcut	Queenston	7 m
Horning's Mills Roadcut	Manitoulin	5 m
Lavender Badlands	Queenston-Whirlpool	20 m
Duntroon Quarry	Whirlpool-Manitoulin	8 m
Scenic Caves Creek	Georgian Bay-Queenston	69 m
Craigeith Creek	Collingwood	4 m
Delphi Point	Collingwood	2 m
Camperdown Creek	Blue Mountain	65 m
Workman's creek	Blue Mountain-Georgian Bay	85 m
Christie Beach Creek	Blue Mountain	15 m
Southeast Claybanks	Blue Mountain-Georgian Bay	37 m
Meaford Range Roadcut	Queenston-Manitoulin	13 m
upper Sucker creek	Queenston	6 m
Sucker Creek	Blue Mountain-Georgian Bay	33 m
3 rd Avenue East, Owen Sound	Queenston-Manitoulin	17 m
Hibou Bay	Queenston	1 m
Inglis Falls Roadcut	Cabot Head-Fossil Hill	7 m
Brooke Roadcut	Cabot Head-Dyer Bay-Fossil Hill	4 m
Indian Falls	Queenston-Manitoulin	12 m
Sutton Point	Queenston	11 m
Dodd's Hill Ditchcut	Cabot Head-Dyer Bay-Wingfield-Fossil Hill	15 m

Big Bay Roadcut	Queenston	16 m
Oxenden Falls	Dyer Bay	4 m
Lion's Head Beach	Wingfield-Fossil Hill	8 m
Rush Cove Roadcut	Cabot Head-Dyer Bay	6 m
Rocky Bay	Queenston-Manitoulin-Cabot Head-Dyer Bay-Wingfield-St. Edmund's-Fossil Hill	60 m

Table 4B. Locations of outcrop sections of Upper Ordovician/Lower Silurian strata measured in 2000

OUTCROP NAME	LATITUDE/ LONGITUDE	1:50000 NTS SHEET	GRID LOCATION/ BLOCK
Mono Mills Roadcut	43°59'N / 80°00'W	30 M/13 Bolton	806709
Hockley Roadcut	43°58'N / 80°05'W	40 P/16 Orangeville	742681
Glen Cross	43°59'N / 80°03'W	40 P/16 Orangeville	765705
Cataract	43°49'N / 80°02'W	40 P/16 Orangeville	785542
Aldershot Quarry	43°20'N / 79°51'W	30M/5 Hamilton-Burlington	929977
Mono Centre Roadcut	44°02'N / 80°04'W	41 A/1 Dundalk	753765
Whitfield Roadcut	44°09'N / 80°06'W	41 A/1 Dundalk	712896
Perm Roadcut	44°10'N / 80°04'W	41 A/1 Dundalk	741909
Mansfield Roadcut	44°12'N / 80°04'W	41 A/1 Dundalk	752939
Horning's Mills Roadcut	44°09'N / 80°12'W	41 A/1 Dundalk	643896
Lavender Badlands	44°17'N / 80°06'W	41 A/8 Collingwood	707028
Duntroon Quarry	44°23'N / 80°14'W	41 A/8 Collingwood	615155
Scenic Caves Creek	44°29'N / 80°18'W	41 A/8 Collingwood	555262 – 550264
Craigeleith Creek	44°32'N / 80°20'W	41 A/9 Nottawasaga Bay	536304
Delphi Point	44°32'N / 80°22'W	41 A/9 Nottawasaga Bay	498319
Camperdown Creek	44°32'N / 80°24'W	41 A/9 Nottawasaga Bay	475317 – 472306
Workman's Creek	44°36'N / 80°34'W	41 A/10 Owen Sound	352385 – 353366
Christie Beach Creek	44°35'N / 80°31'W	41 A/10 Owen Sound	386375
Southeast Claybanks	44°35'N / 80°32'W	41 A/10 Owen Sound	373377
Meaford Range Roadcut	44°39'N / 80°40'W	41 A/10 Owen Sound	267433
upper Sucker creek	44°41'N / 80°43'W	41 A/10 Owen Sound	229469
Sucker Creek	44°43'N / 80°44'W	41 A/10 Owen Sound	215519 – 219506
3 rd Avenue East, Owen Sound	44°35'N / 80°56'W	41 A/10 Owen Sound	056369
Hibou Bay	44°38'N / 80°53'W	41 A/10 Owen Sound	093414
Inglis Falls Roadcut	44°32'N / 80°56'W	41 A/10 Owen Sound	050305
Brooke Roadcut	44°36'N / 80°58'W	41 A/10 Owen Sound	023373
Indian Falls	44°37'N / 80°57'W	41 A/10 Owen Sound	039408
Sutton Point	44°41'N / 80°55'W	41 A/10 Owen Sound	065470

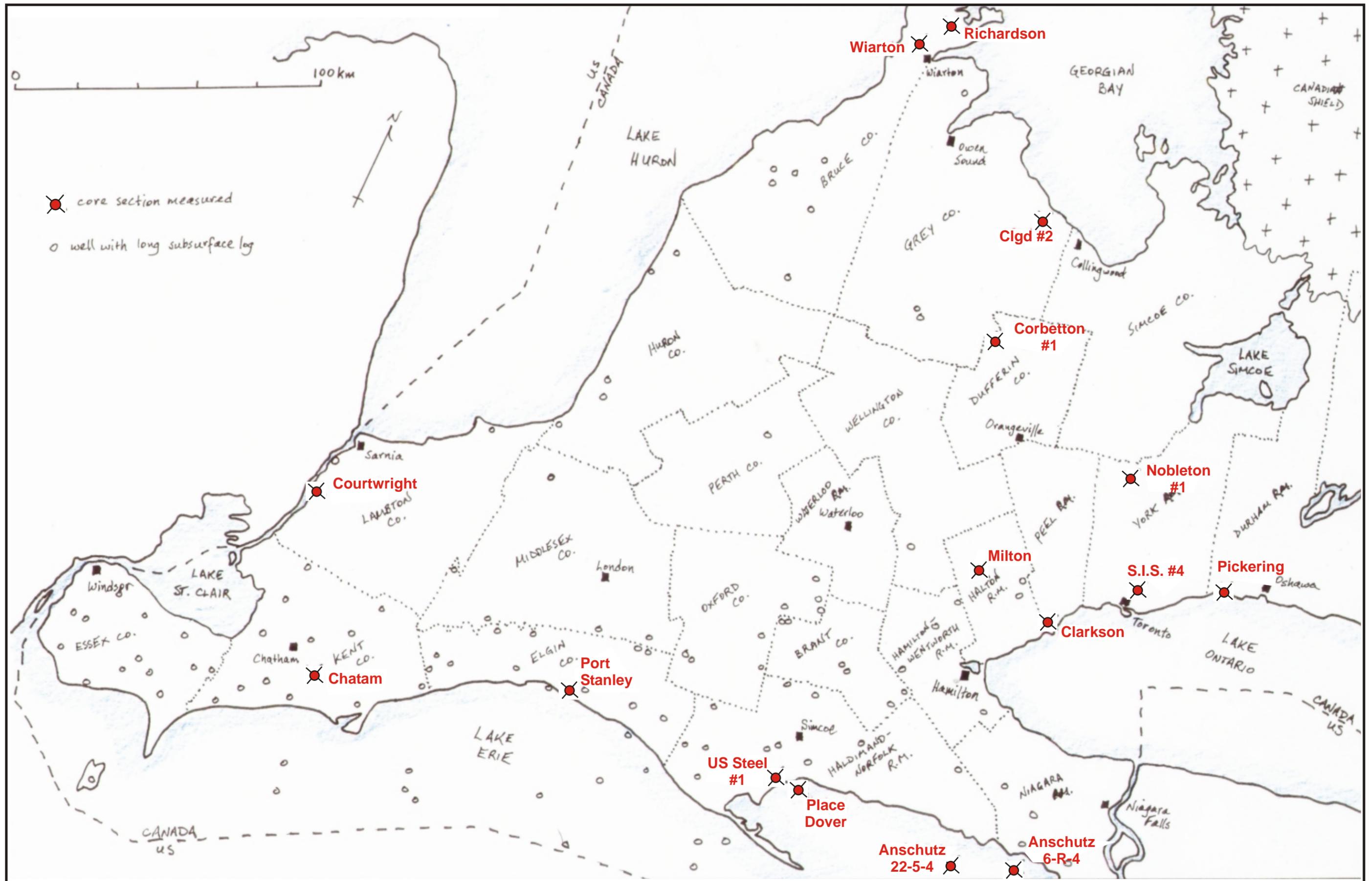
Dodd's Hill Ditchcut	44°46'N / 80°57'W	41 A/15 White Cloud Island	040570
Big Bay Roadcut	44°48'N / 80°55'W	41 A/15 White Cloud Island	060604
Oxenden Falls	44°46'N / 81°05'W	41 A/14 Cape Croker	927568
Lion's Head Beach	44°59'N / 81°15'W	41 A/14 Cape Croker	801824
Rush Cove Roadcut	44°58'N / 81°09'W	41 A/14 Cape Croker	874782
Rocky Bay	45°14'N / 81°21'W	41 H/3 Dyers Bay	774101 – 723097

Table 5A. Outcrop sections of Upper Ordovician/Lower Silurian measured in 2001

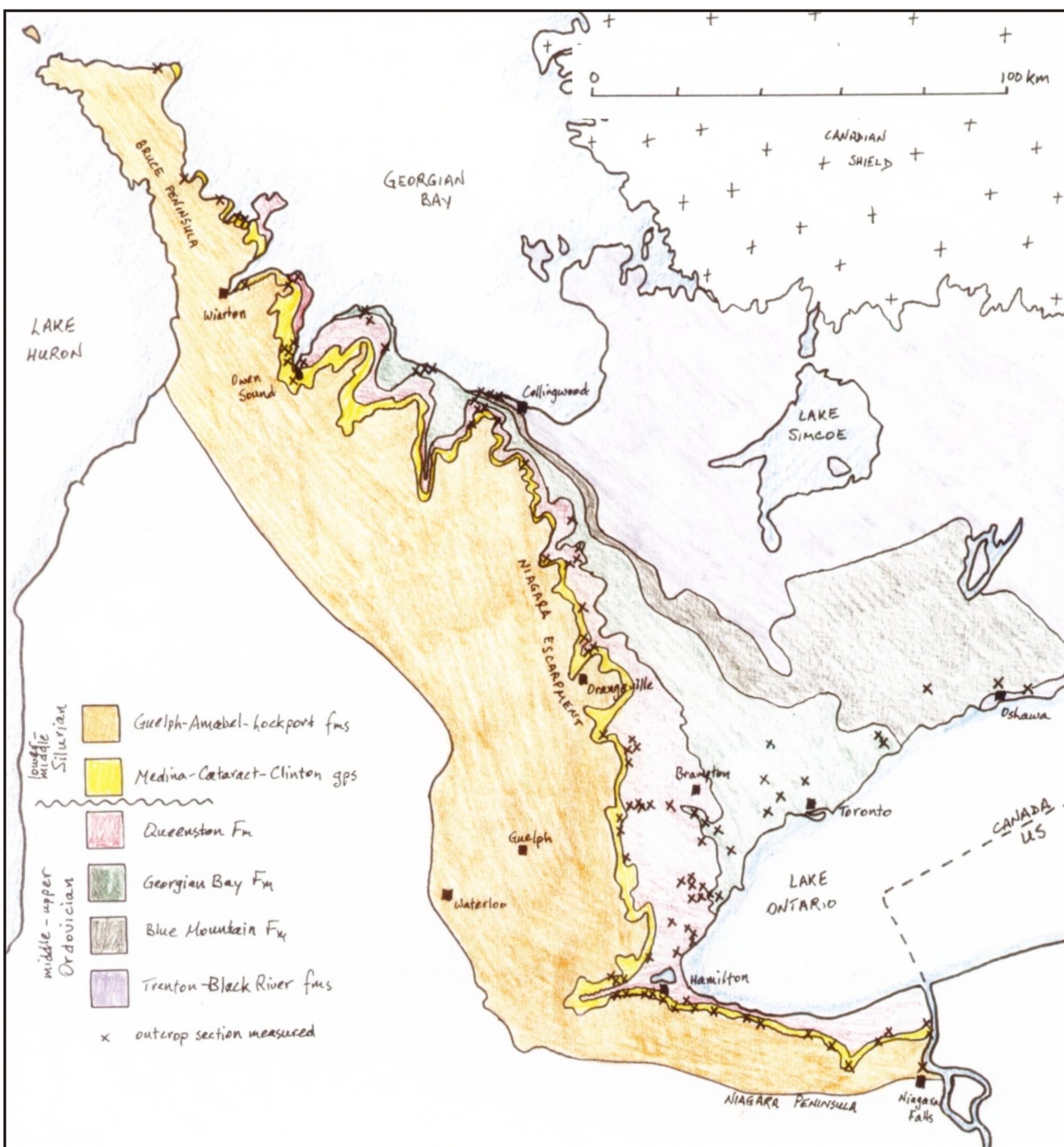
OUTCROP NAME	FORMATION	THICKNESS
Heritage Farm	Manitoulin	2 m
Loree	Queenston	10 m
Metcalf Rock	Fossil Hill	3.5 m
Cape Dundas	Dyer Bay-Fossil Hill	4 m
Red Cliffs	Queenston	9.5 m
Tiffany Falls	Thorold-Reynales-Irondequoit-Rochester	11 m
Chedoke Radial RR Trail	Reynales-Irondequoit-Rochester	11 m
Woodend Conservation Area	Manitoulin	5.5 m
Woolverton Rd	Grimsby-Thorold-Reynales-Irondequoit-Rochester	17 m
Huttonville (extension)	Queenston	7 m
Christie Beach Ck (extension)	Blue Mountain	10 m
Workman's Creek (extension)	Georgian Bay-Queenston	47 m
Kenilworth Rd	Queenston-Whirlpool-Grimsby-Thorold	47 m

Table 5B. Locations of outcrop sections of Upper Ordovician/Lower Silurian measured in 2001

OUTCROP NAME	LATITUDE/ LONGITUDE	1:50000 NTS SHEET	GRID LOCATION/ BLOCK
Heritage Farm	44°30'N / 80°21'W	41 A/9 Nottawasaga Bay	512284
Loree	44°31'N / 80°23'W	41 A/9 Nottawasaga Bay	492289
Metcalf Rock	44°26'N / 80°26'W	41 A/8 Collingwood	444196
Cape Dundas	44°57'N / 81°07'W	41 A/14 Cape Croker	909774
Red Cliffs	43°39'N / 80°52'W	30 M/12 Brampton	905343
Tiffany Falls	43°14'N / 79°57'W	30 M/4 Hamilton-Grimby	846877
Chedoke Radial RR Trail	43°15'N / 79°55'W	30 M/4 Hamilton-Grimby	873886
Woodend Conservation Area	43°09'N / 79°10'W	30 M/3/6 Niagara	490785
Woolverton Rd	43°11'N / 79°35'W	30 M/4 Hamilton-Grimby	141831
Huttonville (extension)	43°39'N / 79°49'W	30 M/12 Brampton	953332
Christie Beach Ck (extension)	44°35'N / 80°31'W	41 A/10 Owen Sound	386375
Workman's Creek (extension)	44°35'N / 80°33'W	41 A/10 Owen Sound	352385 – 360359
Kenilworth Rd	43°14'N / 79°50'W	30 M/4 Hamilton-Grimby	952875



Location map for Upper Ordovician/Lower Silurian cores measured. And wells with extensive subsurface logs over this interval



Location map for Upper Ordovician/Lower Silurian outcrop sections measured, and outcrop belts near Niagara Escarpment