Surficial Data Model version 2.3.0 (2017-06-13)

Open Fin 8236 Appendix 5 - GEOMORPHOLOGICAL FEATURES

Group	Feature	Modifier	Feature Class	**Control	**Feature Type	**Subset	**Status	**Sense or Orientation	**Depositional or Erosional Environment	**Location Confidence	**True Ground Length	**Symbol	Symbol Representation	Legend Symbol Representation	Short Legend Description	Notes
Anthropogenic features	Pit	All	GEM_POLYS	454:002 Pit (all)	454 * Pit	117 Gravestone aggregate 245 Quarry 247 Sand 281 Tailings 283 * Unspecified	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.009 * Pit (all)				Pit / large, active; inactive	Control marker 3.03.01.002 (active) or 3.03.01.003 (inactive) must be added with CanoMap.
Anthropogenic features	Pit	Inactive or unspecified	GEM_POINTS	420:056 Pit (inactive or unspecified)	420 * Pit	117 Gravestone aggregate 245 Quarry 247 Sand 281 Tailings 283 * Unspecified	292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.002 * Pit (inactive or unspecified)				Pit / small, active	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Anthropogenic features	Pit	Status active	GEM_POINTS	420:056 Pit (status active)	420 * Pit	117 Gravestone aggregate 245 Quarry 247 Sand 281 Tailings 283 * Unspecified	291 Active	300 * Not applicable	310 * Not applicable		3.03.01.002 * Pit (status active)				Pit / small, active	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Anthropogenic features	Mine tailing	All	GEM_POINTS	445:002 Mine tailing (all)	445 * Mine tailing	300 * Not applicable	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.007 * Mine tailing (all)				Mine tailing / small, active	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Anthropogenic features	Made ground (fill)	All	GEM_POLYS	444:002 Made ground (fill) (all)	444 * Made ground (fill)	300 * Not applicable	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.006 * Made ground (fill) (all)				Made ground (fill)	
Anthropogenic features	Quarry	All	GEM_POLYS	456:002 Quarry (all)	456 * Quarry	300 * Not applicable	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.010 * Quarry (all)				Quarry / large, active; inactive	Control marker 3.03.01.004 (active) or 3.03.01.005 (inactive) must be added with CanoMap.
Anthropogenic features	Quarry	Inactive or unspecified	GEM_POINTS	420:057 Quarry (inactive or unspecified)	420 * Quarry	300 * Not applicable	292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.005 * Quarry (inactive or unspecified)				Quarry / small, inactive	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Anthropogenic features	Quarry	Status active	GEM_POINTS	420:056 Quarry (status active)	420 * Quarry	300 * Not applicable	291 * Active	300 * Not applicable	310 * Not applicable		3.03.01.004 * Quarry (status active)				Quarry / small, active	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Anthropogenic features	Peat-bog mining	All	GEM_POLYS	453:002 Peat-bog mining (all)	453 * Peat-bog mining	300 * Not applicable	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable		3.03.01.008 * Peat-bog mining (all)				Peat bog mining	
Anthropogenic features	Drillhole location	All	GEM_POINTS	411:002 Drillhole location (all)	411 * Drillhole location	300 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.03.01.001 * Drillhole location (all)				Drillhole location	Point of observation is at the midpoint of symbol.
Group	**Feature**	**Modifier**	**Feature Class**	**Control**	**Feature Type**	**Subset**	**Status**	**Sense or Orientation**	**Depositional or Erosional Environment**	**Location Confidence**	**True Ground Length**	**Symbol**	**Symbol Representation**	**Legend Symbol Representation**	**Short Legend Description**	**Notes**
Bedrock features	Area of sinkholes	All	GEM_POLYS	459:002 Area of sinkholes (all)	459 * Area of sinkholes	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.04.01.007 * Area of sinkholes (all)	SH			Sinkhole / large	Can be used to represent areas of sinkholes or large sinkholes. Polygon outline digitized with right-side rule. Control marker 3.03.01.002 (active) or 3.03.01.003 (inactive) must be added with CanoMap. Orientation point into depression.
Bedrock features	Sinkhole	All	GEM_POINTS	413:002 Sinkhole (all)	413 * Sinkhole	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.04.01.005 * Sinkhole (all)				Sinkhole / small	Feature too small to show to scale. Point of observation is based at midpoint of symbol. This symbol is not orientated.
Bedrock features	Bedrock scarp	All	GEM_LINES	480:002 Bedrock scarp (all)	480 * Bedrock scarp	129 Edge of coldera 136 Edge of glacial trough 277 Lithologically controlled 876 Structurally controlled 283 * Unspecified	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.04.01.003 * Bedrock scarp (all)			Bedrock scarp	Line digitized using right-side rule. Orientation on downslope.
Bedrock features	Lineament or lineation in bedrock	All	GEM_LINES	494:002 Lineament or lineation in bedrock (all)	494 * Lineament or lineation in bedrock (all)	291 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.04.01.006 * Lineament or lineation in bedrock (all)				Lineament/lineation in bedrock	Linear features that have been determined from aerial photographs or remotely sensed imagery, but not identified on the ground.
Bedrock features	Tor	All	GEM_POINTS	427:002 Tor (all)	427 * Tor	300 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.04.01.003 * Tor (all)				Tor	A feature too small to show to scale. Point of observation is based at midpoint of symbol.
Bedrock features	Mineral occurrence	All	GEM_POINTS	190:002 Mineral occurrence (all)	190 * Mineral occurrence	300 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.04.01.008 * Mineral occurrence (all)	Mn			Mineral occurrence	Point of observation is based at midpoint of symbol.
Bedrock features	Small outcrop	All	GEM_POINTS	421:002 Small outcrop (all)	421 * Small outcrop	300 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.04.01.002 * Small outcrop (all)				Outcrop, small	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Group	**Feature**	**Modifier**	**Feature Class**	**Control**	**Feature Type**	**Subset**	**Status**	**Sense or Orientation**	**Depositional or Erosional Environment**	**Location Confidence**	**True Ground Length**	**Symbol**	**Symbol Representation**	**Legend Symbol Representation**	**Short Legend Description**	**Notes**
Eolian features	Active dune field	All	GEM_POLYS	442:002 Active dune field (all)	442 * Active dune field	268 * Not applicable	291 * Active	300 * Not applicable	310 * Not applicable	267 * Defined	311 * Accurate	3.05.01.003 * Active dune field (all)			Dune / active dune field	May include blowout cones.
Eolian features	Dune crest	All	GEM_LINES	478:002 Dune crest (all)	478 * Dune crest	254 Longitudinal 262 Parabolic 283 * Unspecified	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable	310 * Not applicable	267 * Defined	311 * Accurate	3.05.01.003 * Dune crest (all)			Dune / large	Paleovoid direction can be indicated with an additional Paleofloow direction line. Use digitized using right-side rule. Orientation point into downslope. Control marker 3.03.01.002 (active) or 3.03.01.003 (inactive) must be added with CanoMap.
Eolian features	Dune	Direction unknown or unspecified	GEM_POINTS P_PTLOW	414:055 Dune (direction unknown or unspecified)	414 * Dune	254 Longitudinal 262 Parabolic 283 * Unspecified	291 Active 292 Inactive 297 * Unspecified	300 * Not applicable 304 * Unspecified	310 * Not applicable		3.05.01.009 * Dune (direction unknown or unspecified)				Dune ; parabolic/ longitudinal direction unknown	Feature too small to show to scale and/or field observation. Point of observation is based at midpoint of symbol. This symbol is not oriented.
Eolian features	Dune	Direction known	GEM_POINTS P_PTLOW	414:055 Dune (direction known)	414 * Dune	254 Longitudinal 262 Parabolic 283 * Unspecified	291 Active 292 Inactive 297 * Unspecified	290 * Known	310 * Not applicable		3.05.01.009 * Dune (direction known)				Dune ; small, paleovoid direction unknown	Feature too small to show to scale and/or field observation. Point of observation and rotation (0 = North) are based at midpoint of symbol. The symbol is oriented.
Eolian features	Eolian lag deposit	Deflation surface	GEM_POINTS	550:022 Eolian lag deposit (deflation surface)	550 * Eolian lag deposit	108 * Deflation surface	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.05.01.006 * Eolian lag deposit (deflation surface)				Eolian lag deposit (deflation surface)	Deflation surface.
Eolian features	Paleovoid measurements location	All	P_PTLOW	531:002 Paleovoid measurements location (all)	531 * Paleovoid measurements location (all)	126 Dune forests 574 * Dune orientation	291 * Not applicable	290 * Known	310 * Not applicable		3.05.01.002 Paleovoid measurements location (all)				Paleovoid measurements location	Field observation, measurements from dune foresets or dune orientation. Point of observation and rotation (0 = North) are based at midpoint of symbol. The arrow points downslope.
Eolian features	Deflation landform	Direction unknown or unspecified	GEM_POINTS	411:015 Deflation landform (direction unknown or unspecified)	411 * Deflation landform	287 Blowout 288 Deflation hollow 297 * Unspecified	291 Active 292 Inactive 297 * Unspecified	302 Unknown 304 * Unspecified	118 * Eolian		3.05.01.007 * Deflation landform (direction unknown or unspecified)				Deflation landform / paleovoid direction unknown	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Eolian features	Deflation landform	Direction known	GEM_POINTS	411:015 Deflation landform (direction known)	411 * Deflation landform	287 Blowout 288 Deflation hollow 283 * Unspecified	291 Active 292 Inactive 297 * Unspecified	290 * Known	118 * Eolian		3.05.01.007 * Deflation landform (direction known)				Deflation landform / paleovoid direction known	Feature too small to show to scale. Point of observation and rotation (0 = North) are based at midpoint of symbol.
Group	**Feature**	**Modifier**	**Feature Class**	**Control**	**Feature Type**	**Subset**	**Status**	**Sense or Orientation**	**Depositional or Erosional Environment**	**Location Confidence**	**True Ground Length**	**Symbol**	**Symbol Representation**	**Legend Symbol Representation**	**Short Legend Description**	**Notes**
Glacial and ice-contact features	Recently deglaciated area	All	GEM_POLYS	163:002 Recently deglaciated area (all)	163 * Recently deglaciated area	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.06.01.014 * Recently deglaciated area (all)				Recently deglaciated area	This symbol is a white pattern over colour of geological unit.
Glacial and ice-contact features	Kettle	All	GEM_POLYS	443:002 Kettle (all)	443 * Kettle	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.06.01.013 * Kettle (all)				Kettle / large	Polygon outline digitized with right-side rule. Control marker 3.06.01.002 must be added with CanoMap. Orientationless point into depression.
Glacial and ice-contact features	Kettle	Not applicable	GEM_POINTS	418:002 Kettle (all)	418 * Kettle	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.06.01.003 * Kettle (all)				Kettle / small	Feature too small to show to scale. Point of observation is based at midpoint of symbol. This symbol is not orientated.
Glacial and ice-contact features	Other moraine ridge	Minor	GEM_LINES	499:002 Other moraine ridge (minor)	499 * Other moraine ridge	229 De Geer 247 Minor lateral 251 Minor moraine ridge 263 Ice-marginal 265 Push moraine 267 Recessional 271 Ice-cored 282 Unspecified 284 Washboard/ribbed	291 * Not applicable	290 Active 292 Inactive 297 * Unspecified	285 Appropriate 287 Defined	311 * Accurate 251 Appropriate	3.06.02.012 * Other moraine ridge (minor)				Moraine ridge / large, minor	Multiple lines must be digitized individually. The legend symbol 3.15.01.003 is a set of moraine ridges.
Glacial and ice-contact features	Minor moraine ridge	Orientation unknown or unspecified	GEM_POINTS	502:079 Minor moraine (orientation unknown or unspecified)	502 * Minor moraine	268 * Not applicable	291 * Not applicable	302 Unknown 304 * Unspecified	310 * Not applicable		3.06.01.017 * Minor moraine (orientation unknown or unspecified)				Moraine ridge / small, minor, orientation unknown	Feature too small to show to scale. Point of observation is based at midpoint of symbol. This symbol is not orientated.
Glacial and ice-contact features	Minor moraine	Orientation known	GEM_POINTS P_PTLOW	502:079 Minor moraine (orientation known)	502 * Minor moraine	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable		3.06.01.017 * Minor moraine (orientation known)				Moraine ridge / small, minor, orientation known	Feature too small to show to scale and/or field observation. Point of observation and rotation (0 = North) are based at midpoint of symbol. This symbol is not orientated.
Glacial and ice-contact features	Major moraine ridge	Lateral or latereffronal	GEM_LINES	498:046 Major moraine ridge (lateral or latereffronal)	498 * Major moraine ridge	213 * Lateral 223 Latereffronal	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.06.01.008 * Major moraine ridge (lateral or latereffronal)			Moraine ridge / large, major, lateral	Line digitized using right-side rule. Orientationless on glacier side.
Glacial and ice-contact features	Major moraine ridge	Medial	GEM_LINES	498:046 Major moraine ridge (medial)	498 * Major moraine ridge	226 * Medial	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.06.01.008 * Major moraine ridge (medial)			Moraine ridge / large, major, medial	
Glacial and ice-contact features	Major moraine ridge	End, interlobate, or unspecified	GEM_LINES	498:046 Major moraine ridge (end, interlobate, or unspecified)	498 * Major moraine ridge	246 End 249 Interlobate 283 * Unspecified	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.06.01.010 * Major moraine ridge (end, interlobate, or unspecified)			Moraine ridge / large, major, end	
Glacial and ice-contact features	Major moraine ridge	Lateral ice-cored or latereffronal ice-cored	GEM_LINES	498:046 Major moraine ridge (lateral ice-cored or latereffronal ice-cored)	498 * Major moraine ridge	213 * Lateral 223 Latereffronal	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.06.01.007 * Major moraine ridge (lateral ice-cored or latereffronal ice-cored)			Moraine ridge / large, major, lateral ice-cored	Line digitized using right-side rule. Orientationless on glacier side.
Glacial and ice-contact features	Major moraine ridge	Medial ice-cored	GEM_LINES	498:046 Major moraine ridge (medial ice-cored)	498 * Major moraine ridge	213 * Medial ice-cored	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.06.01.009 * Major moraine ridge (medial ice-cored)			Moraine ridge / large, major, medial ice-cored	
Glacial and ice-contact features	Major moraine ridge	End ice-cored, interlobate ice-cored, or unspecified ice-cored	GEM_LINES	498:046 Major moraine ridge (end ice-cored, interlobate ice-cored, or unspecified ice-cored)	498 * Major moraine ridge	568 End ice-cored 569 Interlobate ice-cored 579 * Unspecified ice-cored	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.06.01.011 * Major moraine ridge (end ice-cored, interlobate ice-cored, or unspecified ice-cored)			Moraine ridge / large, major, end ice-cored	
Glacial and ice-contact features	Ice-contact scarp	All	GEM_LINES	461:002 Ice-contact scarp (all)	461 * Ice-contact scarp	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.007 * Ice-contact scarp (all)			Ice-contact scarp	Line digitized using right-side rule. Orientationless point downscarp.
Glacial and ice-contact features	Ice-pushed ridge	All	GEM_LINES	110:002 Ice-pushed ridge (all)	110 * Ice-pushed ridge	268 * Not applicable	291 Active 292 Inactive 297 * Unspecified	290 * Known	305 Floral 308 Lacustrine 309 Marine 314 * Unspecified	267 * Defined	311 * Accurate	3.07.01.008 * Ice-pushed ridge (all)			Ice-pushed ridge	Seismical or drift-ice. Line digitized using right-side rule. Orientationless point basinward.
Glacial and ice-contact features	Ice-thrust ridge	All	GEM_LINES	489:002 Ice-thrust ridge (all)	489 * Ice-thrust ridge	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.009 * Ice-thrust ridge (all)			Ice-thrust ridge	Line digitized using right-side rule. Orientationless on glacier side.
Glacial and ice-contact features	Buried esker ridge	Direction unknown or unspecified	GEM_LINES	467:002 Buried esker ridge (direction unknown or unspecified)	467 * Buried esker ridge	268 * Not applicable	291 * Not applicable	302 Unknown 304 * Unspecified	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.004 * Buried esker ridge (direction unknown or unspecified)			Esker ridge / buried, paleocurrent direction unknown	
Glacial and ice-contact features	Buried esker ridge	Direction known or inferred	GEM_LINES	467:056 Buried esker ridge (direction known or inferred)	467 * Buried esker ridge	268 * Not applicable	291 * Not applicable	312 Inferred 290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.003 * Buried esker ridge (direction known or inferred)			Esker ridge / buried, paleocurrent direction known	Line digitized using right-side rule. Chevrons point in direction of flow.
Glacial and ice-contact features	Esker ridge	Direction unknown or unspecified	GEM_LINES	481:056 Esker ridge (direction unknown or unspecified)	481 * Esker ridge	268 * Not applicable	291 * Not applicable	302 Unknown 304 * Unspecified	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.006 * Esker ridge (direction unknown or unspecified)			Esker ridge / paleocurrent direction unknown or unspecified	Line digitized using right-side rule. Chevrons point in direction of flow.
Glacial and ice-contact features	Esker ridge	Direction known or inferred	GEM_LINES	481:056 Esker ridge (direction known or inferred)	481 * Esker ridge	268 * Not applicable	291 * Not applicable	312 Inferred 290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.005 * Esker ridge (direction known or inferred)			Esker ridge / paleocurrent direction known or inferred	
Glacial and ice-contact features	Esker ridge	With beach ridge(s/strandlines, direction unknown or unspecified	GEM_LINES	481:075 Esker ridge (with beach ridge(s/strandlines, direction unknown or unspecified)	481 * Esker ridge	275 * With beach ridge(s/strandlines	291 * Not applicable	302 Unknown 304 * Unspecified	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.011 * Esker ridge (with beach ridge(s/strandlines, direction unknown or unspecified)			Esker ridge / with beach ridge/strandlines, paleocurrent direction unknown	
Glacial and ice-contact features	Esker ridge	With beach ridge(s/strandlines, direction known or inferred	GEM_LINES	481:075 Esker ridge (with beach ridge(s/strandlines, direction known or inferred)	481 * Esker ridge	275 * With beach ridge(s/strandlines	291 * Not applicable	312 Inferred 290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.07.01.010 * Esker ridge (with beach ridge(s/strandlines, direction known or inferred)			Esker ridge / with beach ridge/strandlines, paleocurrent direction known or inferred	Line digitized using right-side rule. Chevrons point in direction of flow.
Glacial and ice-contact features	Crevasse-fill ridge	All	GEM_LINES	472:002 Crevasse-fill ridge (all)	472 * Crevasse-fill ridge	113 Subglacial 182 Supraglacial 283 * Unspecified	291 * Not applicable	290 * Not applicable	319 Glacial 320 Ice-contact 314 * Unspecified	267 * Defined	311 * Accurate	3.08.01.005 * Crevasse-fill ridge (all)			Crevasse ridge	
Glacial and ice-contact features	Crique beahead	All	GEM_LINES	469:002 Crique beahead (all)	469 * Crique beahead	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.004 * Crique beahead (all)			Crique beahead	Line digitized using right-side rule. Orientationless point into crique.
Glacial and ice-contact features	Ashe	All	GEM_LINES	464:002 Ashe (all)	464 * Ashe	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.003 * Ashe (all)			Ashe	
Glacial and ice-contact features	Ice-contact delta	All	GEM_POINTS	416:002 Ice-contact delta (all)	416 * Ice-contact delta	268 * Not applicable	291 * Not applicable	290 * Known 302 Unknown 304 Unspecified	306 Glaciolacustrine 307 Glaciomarine 314 * Unspecified		3.07.01.001 * Ice-contact delta (all)				Ice-contact delta / paleocurrent direction unknown, paleocurrent direction known	Feature too small to show to scale. Point of observation is based at midpoint of symbol. Control marker 3.03.01.002 (active) or 3.03.01.003 (inactive) must be added with CanoMap. If the unknown direction the symbol is pointing up.
Glacial and ice-contact features	Kame	All	GEM_POINTS	417:002 Kame (all)	417 * Kame	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable		3.07.01.002 * Kame (all)				Kame	Feature too small to show to scale. Point of observation is based at midpoint of symbol.
Group	**Feature**	**Modifier**	**Feature Class**	**Control**	**Feature Type**	**Subset**	**Status**	**Sense or Orientation**	**Depositional or Erosional Environment**	**Location Confidence**	**True Ground Length**	**Symbol**	**Symbol Representation**	**Legend Symbol Representation**	**Short Legend Description**	**Notes**
Map-unit boundaries	Geological boundary	Confidence defined	GEO_BOUND	595:014 Geological boundary (confidence defined)	595 * Geological boundary	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	267 * Defined	311 * Accurate	3.02.01.001 * Geological boundary (confidence defined)			Geological contact / defined	
Map-unit boundaries	Geological boundary	Confidence approximate	GEO_BOUND	595:006 Geological boundary (confidence approximate)	595 * Geological boundary	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	265 * Approximate	311 * Accurate	3.02.01.003 * Geological boundary (confidence approximate)			Geological contact / approximate	
Map-unit boundaries	Geological boundary	Confidence inferred	GEO_BOUND	595:010 Geological boundary (confidence inferred)	595 * Geological boundary	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	164 * Inferred	311 * Accurate	3.02.01.003 * Geological boundary (confidence inferred)			Geological contact / inferred	
Map-unit boundaries	Geological boundary	Confidence concealed	GEO_BOUND	595:012 Geological boundary (confidence concealed)	595 * Geological boundary	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	266 * Concealed	311 * Accurate	3.02.01.004 * Geological boundary (confidence concealed)			Geological contact / concealed	
Map-unit boundaries	Geological boundary	Confidence arbitrary	GEO_BOUND	595:009 Geological boundary (confidence arbitrary)	595 * Geological boundary	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	171 * Arbitrary	311 * Accurate	3.02.01.011 * Geological boundary (confidence arbitrary)			Geological contact / arbitrary	
Map-unit boundaries	Limit of mapping	Limit of mapping	GEO_BOUND	510:044 Limit of mapping (limit of mapping)	510 * Limit of mapping	101 * Limit of mapping	291 * Not applicable	290 * Not applicable	310 * Not applicable	268 * Not applicable	311 * Accurate	3.02.05.005 * Limit of mapping (limit of mapping)			Limit of mapping	Use when extent of mapping does not correspond to boundary of map (e.g. watershed area).
Map-unit boundaries	Geological boundary / coincident with other line feature	All	GEO_BOUND	534:002 Geological boundary / coincident with other line feature (all)	534 * Geological boundary / coincident with other line feature	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	267 * Defined	311 * Accurate	3.01.01.002 * Geological boundary / coincident with other line feature (confidence defined)			Not included in the map legend	Use when geological boundary coincides with another linear feature. This symbol will not be shown on the map legend.
Map-unit boundaries	Geological boundary / coincident with other line feature	All	GEO_BOUND	534:002 Geological boundary / coincident with other line feature (all)	534 * Geological boundary / coincident with other line feature	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	265 Approximate	311 * Accurate	3.01.01.003 Geological boundary / coincident with other line feature (confidence approximate)			Not included in the map legend	Use when geological boundary coincides with another linear feature. This symbol will not be shown on the map legend.
Map-unit boundaries	Geological boundary / coincident with other line feature	All	GEO_BOUND	534:002 Geological boundary / coincident with other line feature (all)	534 * Geological boundary / coincident with other line feature	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	268 Concealed	311 * Accurate	3.01.01.005 Geological boundary / coincident with other line feature (concealed)			Not included in the map legend	Use when geological boundary coincides with another linear feature. This symbol will not be shown on the map legend.
Map-unit boundaries	Geological boundary / coincident with other line feature	All	GEO_BOUND	534:002 Geological boundary / coincident with other line feature (all)	534 * Geological boundary / coincident with other line feature	268 * Not applicable	291 * Not applicable	290 * Not applicable	310 * Not applicable	164 Inferred	311 * Accurate	3.01.01.004 * Geological boundary / coincident with other line feature (inferred)			Not included in the map legend	Use when geological boundary coincides with another linear feature. This symbol will not be shown on the map legend.
Map-unit boundaries	Limit of mapping	Neatline	GEO_BOUND	510:043 Limit of mapping (neatline)	510 * Limit of mapping	103 * Neatline	291 * Not applicable	300 * Not applicable	310 * Not applicable	268 * Not applicable	311 * Not applicable	3.02.01.006 * Limit of mapping (neatline)			Not included in the map legend	7670 neatline. This symbol should not be shown if coincides with map border.
Group	**Feature**	**Modifier**	**Feature Class**	**Control**	**Feature Type**	**Subset**	**Status**	**Sense or Orientation**	**Depositional or Erosional Environment**	**Location Confidence**	**True Ground Length**	**Symbol**	**Symbol Representation**	**Legend Symbol Representation**	**Short Legend Description**	**Notes**
Ice-movement features	Buried drumlinoid ridge	All	GEM_LINES	563:002 Buried drumlinoid ridge (all)	563 * Buried drumlinoid ridge	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.015 * Buried drumlinoid ridge (all)			Drumlinoid ridge / large, buried	
Ice-movement features	Drumlinoid ridge	All	GEM_LINES	561:002 Drumlinoid ridge (all)	561 * Drumlinoid ridge	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.016 * Drumlinoid ridge (all)			Drumlinoid ridge / small, buried	Feature too small to show to scale. Point of observation and rotation (0 = North) are based at midpoint of symbol. Label optional: use generation field with text symbol 2.03.01.005.
Ice-movement features	Drumlinoid	All	GEM_LINES	546:002 Drumlinoid (all)	546 * Drumlinoid	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.08.01.005 * Drumlinoid (all)				Drumlinoid / small	Feature too small to show to scale. Point of observation and rotation (0 = North) are based at midpoint of symbol. Label optional: use generation field with text symbol 2.03.01.005.
Ice-movement features	Buried drumlin (all)	All	GEM_LINES	101:002 Buried drumlin (all)	101 * Buried drumlin	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.08.01.014 * Buried drumlin (all)				Drumlin / small, buried	Line digitized using right-side rule. Arc points in direction of flow.
Ice-movement features	Drumlin	All	GEM_LINES	123:002 Drumlin (all)	123 * Buried drumlin	268 * Not applicable	291 * Not applicable	300 * Not applicable	310 * Not applicable		3.08.01.005 * Buried drumlin (all)				Drumlin / small, buried	Feature too small to show to scale. Point of observation and rotation (0 = North) are based at midpoint of symbol. The arrow points in direction of flow.
Ice-movement features	Drumlin ridge	All	GEM_LINES	476:002 Drumlin ridge (all)	476 * Drumlin ridge	317 Bedrock 512 Unconsolidated sediments 283 * Unspecified	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.017 * Drumlin ridge (all)			Drumlin ridge / large	Line digitized using right-side rule. Arc points in direction of flow.
Ice-movement features	Drumlin	All	GEM_POINTS	120:002 Drumlin (all)	120 * Drumlin	317 Bedrock 512 Unconsolidated sediments 283 * Unspecified	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.004 * Drumlin (all)			Drumlin / small	Feature too small to show to scale. Point of observation and rotation (0 = North) are based at midpoint of symbol. The arrow points in direction of flow.
Ice-movement features	Crag-and-tail ridge	All	GEM_LINES	472:002 Crag-and-tail ridge (all)	472 * Crag-and-tail ridge	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.016 * Crag-and-tail ridge (all)			Crag-and-tail ridge / large	Line digitized using right-side rule. Arrow points in direction of flow.
Ice-movement features	Crag-and-tail	All	GEM_POINTS	119:002 Crag-and-tail (all)	119 * Crag-and-tail	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable		3.08.01.003 * Crag-and-tail (all)				Crag-and-tail ridge	Feature too small to show to scale; see notations for field observations. Point of observation and rotation (0 = North) are based at midpoint of symbol. The arrow points in direction of flow.
Ice-movement features	Pro-crag ridge	All	GEM_LINES	497:002 Pro-crag ridge (all)	497 * Pro-crag ridge	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable		3.08.01.040 * Pro-crag ridge (all)				Pro-crag ridge	Line digitized using right-side rule. Arrow points in direction of flow.
Ice-movement features	Pro-crag	All	GEM_POINTS P_PTLOW	468:002 Pro-crag (all)	468 * Pro-crag	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable		3.08.01.038 * Pro-crag (all) 3.08.01.039 Pro-crag (direction unknown)				Pro-crag ridge	Line digitized using right-side rule. Point of observation and rotation (0 = North) are based at midpoint of symbol. The arrow points in direction of flow.
Ice-movement features	Large groove central long axis	Direction unknown or unspecified	GEM_LINES	484:055 Large groove central long axis (direction unknown or unspecified)	484 * Large groove central long axis	268 * Not applicable	291 * Not applicable	302 Unknown 304 * Unspecified	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.022 * Large groove central long axis (direction unknown or unspecified)			Groove / large, ice-flow direction unknown	
Ice-movement features	Large groove central long axis	Direction known	GEM_LINES	484:055 Large groove central long axis (direction known)	484 * Large groove central long axis	268 * Not applicable	291 * Not applicable	290 * Known	310 * Not applicable	267 * Defined	311 * Accurate	3.08.01.021 * Large groove central long axis (direction known)			Groove / large, ice-flow direction known	Line digitized using right-side rule. Arc points in direction of flow.
Ice-movement features	Fluted bedrock or drift	Poorly defined; direction unknown or unspecified	GEM_POINTS P_PTLOW	544:037 Fluted bedrock or drift (poorly defined; direction unknown or unspecified)	544 * Fluted bedrock or drift	317 Bedrock 512 Unconsolidated sediments 283 * Unspecified	291 * Not applicable	302 Unknown 304 * Unspecified	310 * Not applicable		3.08.01.08 * Fluted bedrock or drift (poorly defined; direction unknown or unspecified) 3.08.01.030 Fluted bedrock or drift, central long axis (poorly defined; direction unknown or unspecified)				Fluted bedrock or drift / small, poorly defined, ice-flow direction unknown	Feature too small to show to scale and/or field observation. Point of observation and rotation (0 = North) are based at midpoint of symbol. Label optional: use generation field with text symbol 2.03.01.005.
Ice-movement features	Fluted bedrock or drift	Poorly def