

Appendix A

Interim Soil Survey Report of
the Cormorant Lake Area
Map Legend

LEGEND

PARENT MATERIAL	LANDFORM	CLIMATIC ZONE	NATURAL DRAINAGE	MAP SYMBOL	SOIL NAME AND DOMINANT TEXTURE	PROFILE TYPE	DOMINANT VEGETATION	TOPOGRAPHY	STONINESS
Extremely calcareous loamy till	Morainal plain and drumlins or flutings within a morainal plain or both	3 and 4A	Well drained	At	Atikameg Series (loam)	Degraded Eutric Brunisol	Black spruce, jack pine, aspen	Very gently undulating	Very stony to excessively stony
			Imperfectly drained	Ci	Chitek Series (loam)	Gleyed Degraded Eutric Brunisol	Black spruce, aspen, willow	Very gently undulating	Moderately stony to exceedingly stony
			Poorly drained	Dr	Dering Series peaty phase (loam)	Rego Gleysol, peaty phase	Black spruce, Labrador Tea, feather and Sphagnum mosses	Depressional to level	Moderately stony to very stony
50 to 100 cm of extremely calcareous loamy till over limestone bedrock	Morainal plain (vener) or morainal plain (vener) and bedrock complex	3 and 4A	Well drained	Li	Limestone Point Series (loam)	Degraded Eutric Brunisol	Black spruce, jack pine, aspen	Very gently undulating	Very stony to excessively stony
			Imperfectly drained	Bc	Birch Bay Series (loam)	Gleyed Degraded Eutric Brunisol	Black spruce, aspen, willow	Very gently undulating	Moderately stony to exceedingly stony
			Poorly drained	Bp	Biscuit Point Series, peaty phase (loam)	Rego Gleysol, peaty phase	Black spruce, Labrador Tea, feather and Sphagnum mosses	Depressional to level	Moderately stony to very stony
Moderately to very strongly calcareous, sandy loam to loam till	Morainal plain and drumlins	3 and 4A	Well drained	Ss	Simonhouse Series (loam to sandy loam)	Degraded Eutric Brunisol	Black and white spruces, aspen, jack pine	Very gently undulating	Excessively stony
				Ei	Egg Lake Series (loam to sandy loam)	Orthic Gray Luvisol	Black and white spruces, aspen and jack pine	Very gently undulating	Excessively stony
			Imperfectly drained	Lk	Leak Lake Series (loam to sandy loam)	Gleyed Degraded Eutric Brunisol	Black and white spruces, aspen, willow	Very gently undulating	Exceedingly stony
			Poorly drained	Ge	Goose River Series peaty phase (loam to sandy loam)	Rego Gleysol, peaty phase	Black spruce, Labrador Tea, feather and Sphagnum mosses	Depressional to level	Moderately stony to very stony
Noncalcareous sandy loam till derived from Precambrian granitic and volcanic rocks	Morainal plain	3 and 4A	Well drained	Fl	Fay Lake Series (sandy loam)	Degraded Dystric Brunisol	Jack pine and black spruce	Moderately to strongly rolling	Very stony to excessively stony
			Imperfectly drained	Ht	Hat Lake Series (sandy loam)	Gleyed Degraded Dystric Brunisol	Black spruce and some white spruce	Undulating to gently rolling	Moderately to very stony
			Poorly drained	Li	Lost Lake Series, peaty phase (sandy loam)	Rego Gleysol, peaty phase	Black spruce, Labrador Tea, feather and Sphagnum mosses	Depressional to level	Moderately stony
50 to 100 cm of noncalcareous sandy loam till derived from Precambrian granitic and volcanic rocks over Precambrian bedrock	Morainal plain (vener) or morainal plain (vener) and bedrock complex	3 and 4A	Well drained	Wl	Wolverton Series (sandy loam)	Degraded Dystric Brunisol	Jack pine and black spruce	Moderately to strongly rolling	Very stony to excessively stony
Moderately to strongly calcareous lacustrine clay	Glaciolacustrine plain	3 and 4A	Well drained	Wa	Wabowden Series (clay)	Solodic Gray Luvisol	Black and white spruces, aspen and jack pine	Undulating	Nonstony
				Sk	Sipiwek Series (clay)	Orthic Gray Luvisol	Black and white spruces, aspen and jack pine	Undulating	Nonstony
			Imperfectly drained	Rl	Roe Lake Series (clay)	Gleyed Orthic Gray Luvisol	Black and white spruces and aspen	Gently undulating	Nonstony
			Poorly drained	Me	Medard Series peaty phase	Rego Gleysol, peaty phase	Black spruce, Labrador Tea, feather and Sphagnum mosses	Gently undulating to nearly level	Nonstony
50 to 100 cm of moderately to strongly calcareous lacustrine clay over limestone or Precambrian bedrock	Glaciolacustrine plain (vener) or glaciolacustrine plain (vener) or both and bedrock complex	3 and 4A	Imperfectly drained	Tb	Turnbull Series (clay)	Gleyed Orthic Gray Luvisol	Black and white spruces and aspen	Undulating to gently undulating	Nonstony
			Poorly drained	Tr	Tyrrell Series peaty phase (clay)	Rego Gleysol, peaty phase	Black spruce, Labrador Tea, feather and Sphagnum mosses	Gently undulating to nearly level	Nonstony
Moderately to strongly calcareous clay till	Morainal plain	3 and 4A	Well drained	Ci	Cedar Lake Series (clay)	Orthic Gray Luvisol	Black spruce, white spruce and aspen	Gently sloping	Slightly to moderately stony
			Imperfectly drained	Dy	Dyce Series (clay)	Gleyed Orthic Gray Luvisol	Black spruce and white spruce	Very gently sloping	Slightly to moderately stony
Noncalcareous glaciofluvial sand deposits	Ridged or hummocky glaciofluvial	3 and 4A	Well drained	Ce	Clarke Series (medium to fine sand)	Degraded Dystric Brunisol	Jack pine	Gently rolling	Nonstony
Stratified calcareous sand and gravel outwash and beach deposits	Glaciolacustrine beaches	3 and 4A	Rapidly to well drained	Wx	Woodridge Complex (sand and gravel)	Orthic Gray Luvisol Orthic Eutric Brunisol Degraded Eutric Brunisol	Jack pine and black spruce	Gently undulating to undulating (low narrow ridges)	Slightly to moderately stony
			Imperfectly drained	Tux	Tremaudan Complex (sand and gravel)	Gleyed Orthic Gray Luvisol, Gleyed Degraded Eutric Brunisol	Black spruce, jack pine and aspen	Gently undulating	Slightly to very stony
Recent alluvium	Alluvial flood plain	5A	Imperfectly drained	Ns	Nels Series (fine sandy loam to clay loam)	Gleyed Cumulic Regosol	Aspen, balsam poplar, black and white spruces	Level	Nonstony
			Poorly to very poorly drained	Lp	Le Pas Series, peaty phase (silty clay and clay)	Carbonated Rego Gleysol	Reeds and sedges	Level	Nonstony
				Bl	Big Lake Series	Carbonated Rego Gleysol	Reeds, sedges and willows	Level	Nonstony
Cobbly sand beach deposit	Recent beach	3 and 4A	Rapidly to imperfectly drained	Sb	Sand Beaches (sand)	Orthic Regosol	Scattered aspen, balsam poplar and willows	Low narrow ridges	Stone-free to very stony
0 to 10 cm of rubble over limestone or Precambrian bedrock	Limestone and Precambrian bedrock	3 and 4A	Rapidly drained	R	Rock Outcrop		Some jack pine and black spruce	Irregular, steeply sloping	
40 to 130 cm of mesic forest peat or thin (0 to 60 cm) of fibric Sphagnum peat overlying mesic forest peat	Flat bog and blanket bog	3 and 4A	Poorly to very poorly drained	Akx	Atik Complex (underlain by medium to fine textured calcareous lacustrine sediments)	Terric Fibric Mesisol*, Terric Mesic Fibrisol, Terric Mesisol, Terric Fibrisol	Black spruce with an understory of feather and Sphagnum mosses and ericaceous shrubs	Level to depressional	Nonstony
				Ikx	Iskwasum Complex (underlain by extremely calcareous till)				
60 to 160 cm of fibric Sphagnum peat, which may be underlain by significant amounts of forest or sedge peat	Flat bog and blanket bog	3 and 4A	Poorly to very poorly drained	Chx	Chocolate Complex (underlain by medium to fine textured calcareous lacustrine sediments)	Terric Mesic Fibrisol*, Terric Fibric Mesisol, Terric Fibrisol	Stunted black spruce and tamarack with an understory of Sphagnum mosses and ericaceous shrubs	Depressional to level	Nonstony
				Fax	Farewell Complex (underlain by extremely calcareous till)				
				Otx	Optic Lake Complex (underlain by noncalcareous till)				
Deep to very deep perennially frozen forest peat, or thin (<60 cm) Sphagnum peat overlying forest peat	Plateau bog and domed bog	3 and 4A	Well to imperfectly drained	Nlx	Nekik Lake Complex	Mesic Organo Cryosol**	Black spruce with an understory of Cladonia, Labrador tea and feather mosses	Level or irregular domes and ridges	Nonstony
Deep to very deep perennially frozen Sphagnum peat, or Sphagnum peat overlying forest or fen peat or both	Plateau bog and domed bog	3 and 4A	Well to imperfectly drained	Cmx	Cormorant Lake Complex	Fibric Organo Cryosol**	Black spruce with an understory of Cladonia, Labrador tea and feather mosses	Level or irregular domes and ridges	Nonstony
30 to 130 cm of moderately decomposed sedge peat with little (<15 cm) or no Sphagnum peat deposits	Horizontal fen, patterned fen, floating fen and collapse scar	3 and 4A	Very poorly drained	Rex	Reed Lake Complex (underlain by medium to fine textured calcareous lacustrine sediments)	Terric Mesisol*, Terric Fibric Mesisol	Sedges and mosses with clumps of black spruce and tamarack	Depressional to level	Nonstony
				Mwx	Mawdesley Complex (underlain by extremely calcareous till)				
		5A	Cax	Cayer Complex (underlain by medium to fine textured calcareous lacustrine clay)					
Mesic forest peat greater than 130 cm thick, or thin (0 to 30 cm) fibric Sphagnum peat overlying mesic forest peat	Flat bog and blanket bog	3 and 4A	Poorly to very poorly drained	Hgx	Hargrave Complex (underlain by medium to fine textured calcareous lacustrine sediments)	Typic Mesisol*, Mesic Fibrisol	Black spruce with an understory of feather and Sphagnum mosses and ericaceous shrubs	Depressional to level	Nonstony
				Cwx	Claw Lake Complex (underlain by extremely calcareous till)				
Fibric Sphagnum peat, greater than 90 cm thick, underlain by a significant layer of mesic forest peat, or fibric Sphagnum peat greater than 160 cm thick	Plateau bog and flat bog	3 and 4A	Poorly to very poorly drained	Khx	Kiskitto Complex (underlain by medium to fine textured calcareous lacustrine sediments)	Mesic Fibrisol*, Sphagno Fibrisol	Stunted black spruce and tamarack with dominantly Sphagnum moss and ericaceous shrub understory	Depressional to level	Nonstony
Mesic sedge peat greater than 130 cm thick with little (<15cm) or no Sphagnum peat deposits	Horizontal fen, patterned fen, floating fen and collapse scar	3 and 4A	Very poorly drained	Rlx	Rock Island Complex (underlain by medium to fine textured calcareous lacustrine sediments)	Typic Mesisol	Sedges and mosses	Depressional to level	Nonstony
				5A	Sdx	Stead Complex (underlain by medium to fine textured calcareous lacustrine clay)			

*Dominant organic soil
**Tentative classification