

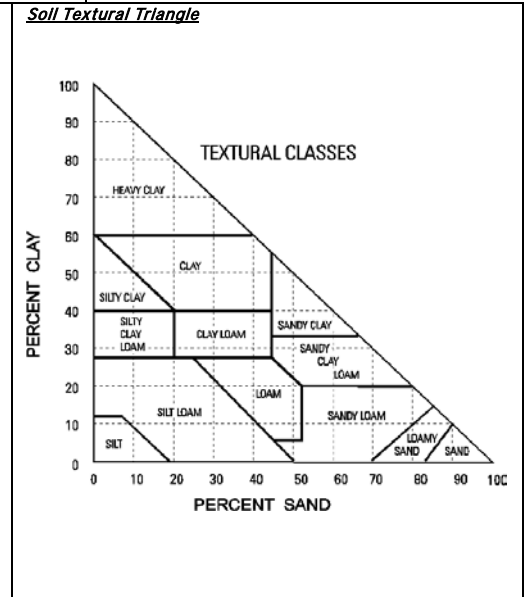
Table C-1 Legend for Soil Survey Sites

Parent Material Codes	Unsorted Glacial Till (TILL)	Sorted Glacial Till (GLTL)	Glaciolacustrine (GLLC)	Glaciofluvial (GLFL)	Eolian (EOLI)	Recent Fluvial (FLUV)	Recent Lacustrine (LACU)	Colluvial (COLL)	Organic (O)
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Miscellaneous Codes

<p>Structure</p> <p>Grade W – Weak M – Moderate S – Strong</p> <p>Class F – Fine M – Medium C – Coarse</p> <p>Kind GR – Granular SB – Subangular Blocky BL – Blocky PR – Prismatic CO – Columnar PL – Platy SG – Single Grain MA – Massive</p>	<p>Consistence</p> <p>Moist Consistency L – Loose VF – Very Friable F – Friable FI – Firm VFI – Very Firm</p> <p>Dry Consistency L – Loose S – Soft SH – Slightly Hard H – Hard VH – Very Hard EH – Extremely Hard R – Rigid</p> <p>Wet Consistency NS – Non Sticky SS – Slightly Sticky ST – Sticky VS – Very Sticky</p>	<p>Coarse Fragments Record % by volume if present</p> <p>Shape R – Rounded SR – Sub-rounded A – Angular I – Irregular F – Flat*</p> <p>Type G – Gravel (2 to 7.5 cm in diameter) FG – Fine gravel (0.2 to 0.5 cm) MG – Medium gravel (0.5 to 2 cm) CG – Coarse gravel (2 to 7.5 cm) C – Cobble (7.5 to 25 cm in diameter) S – Stone (25 to 60 cm in diameter) B – Boulder (> 60 cm in diameter)</p> <p>*If Shape = Flat: Channer (0.2 to 15 cm long) Flagstone (15 to 38 cm long) Stone (38 to 60 cm long) Boulder (> 60 cm long)</p>	<p>Salts F – Few (Weakly saline; 4 - 8 dS/m) C – Common (Moderately saline; 8 to 15 dS/m) M – Many (Strongly saline; > 15 dS/m)</p> <p>Roots</p> <p>Abundance: (ave. no. per square decimeter) F – Few (VF=10; F=10; M=1; C=1) P – Plentiful (VF=10-100; F=10-100; M=1-10; C = 1-5) A – Abundant (VF>100; F>100; M>10; C>5)</p> <p>Size: (diameter in mm) VF – Very Fine (< 1) F – Fine (1-2) M – Medium (2-5) C – Coarse (> 5)</p> <p>Ca CO₃ W – Weakly calcareous (reaction barely visible) M – Moderately calcareous (reaction readily evident) S – Strongly calcareous (immediate reaction with some frothing) VS – Very strongly calcareous (rapid reaction with abundant frothing) E – Extremely calcareous (rapid reaction with excessive frothing)</p>	<p>Mottles</p> <p>Abundance F – Few (< 2% of area) C – Common (2 – 20% of area) M – Many (> 20% of area)</p> <p>Contrast See below for more detail F – Faint (barely noticeable) D – Distinct (clearly evident) P – Prominent (mottles stand out with high contrast to surrounding matrix)</p> <table border="1"> <thead> <tr> <th></th> <th>Hue (#pages)</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td><i>Chroma</i></td> <td></td> <td></td> </tr> <tr> <td>Faint</td> <td>0</td> <td><, = 2</td> </tr> <tr> <td><, = 1</td> <td>1</td> <td>0</td> </tr> <tr> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Distinct</td> <td>0</td> <td>3-4</td> </tr> <tr> <td>2-4</td> <td>1</td> <td><, = 2</td> </tr> <tr> <td><, = 1</td> <td></td> <td></td> </tr> <tr> <td>Prominent</td> <td>2+</td> <td>0</td> </tr> <tr> <td>0</td> <td></td> <td></td> </tr> <tr> <td>>, = 4</td> <td>0</td> <td>>, = 4</td> </tr> <tr> <td>>, = 1</td> <td>1</td> <td>>, = 2</td> </tr> </tbody> </table> <p>Size F – Fine (<5mm) M – Medium (5-15mm) C – Coarse (>15mm)</p>		Hue (#pages)	Value	<i>Chroma</i>			Faint	0	<, = 2	<, = 1	1	0	0			Distinct	0	3-4	2-4	1	<, = 2	<, = 1			Prominent	2+	0	0			>, = 4	0	>, = 4	>, = 1	1	>, = 2
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<p>Horizon Boundary</p> <p>Distinctness [Abruptness of vertical change] A – Abrupt [< 2 cm] C – Clear [2-5 cm] G – Gradual [5-15 cm] D – Diffuse [> 15 cm]</p> <p>Form (Variations of boundary plane) S – Smooth (nearly a plane) W – Wavy (pockets wider than deep) I – Irregular (pockets deeper than wide) B – Broken (Some parts are unconnected)</p> <p>Profile Modifiers e – eroded p – peaty phase (15-60 cm Of or 15-40 cm Om / Oh) s – saline c – carbonated (secondary) t – thick A horizon (> 30 cm) d – disturbed</p> <p>Root Restricting Layer L = Lithic K = Compact Moraine C = Cemented Horizon, W = Excessive Moisture X = Excessive Chemicals P = Clay Pan</p>	<p>Texture tests</p> <table border="1"> <thead> <tr> <th></th> <th>Feel test</th> <th>Moist cast test</th> <th>Worm/ribbon test</th> <th>Shine test</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>grainy</td> <td>no cast</td> <td>none</td> <td></td> </tr> <tr> <td>LS</td> <td>grainy, slightly floury</td> <td>weak cast, no handling</td> <td>none</td> <td></td> </tr> <tr> <td>SIS</td> <td>grainy, mod. floury</td> <td>weak cast, no handling</td> <td>almost flakes</td> <td></td> </tr> <tr> <td>SL</td> <td>grainy, mod. floury</td> <td>weak cast, careful handling</td> <td>barely ribbons (1.5-2 cm)</td> <td></td> </tr> <tr> <td>L</td> <td>soft, smooth, slight graininess</td> <td>good cast, readily handled</td> <td>thick and v. short (<2.5 cm)</td> <td></td> </tr> <tr> <td>SIL</td> <td>floury, slightly grainy</td> <td>weak cast, careful handling</td> <td>flakes rather than ribbons</td> <td></td> </tr> <tr> <td>Si</td> <td>very floury</td> <td>weak cast, careful handling</td> <td>flakes rather than ribbons</td> <td></td> </tr> <tr> <td>SCL</td> <td>very grainy</td> <td>moderate cast</td> <td>short and thick (2.5-5 cm)</td> <td>slightly shiny</td> </tr> <tr> <td>CL</td> <td>mod. graininess</td> <td>strong cast</td> <td>fairly thin, breaks, barely supports own weight</td> <td>slightly shiny</td> </tr> <tr> <td>SICL</td> <td>smooth and floury</td> <td>strong cast</td> <td>fairly thin, breaks, barely supports own weight</td> <td>slightly shiny</td> </tr> <tr> <td>SC</td> <td>substantial graininess</td> <td>strong cast</td> <td>thin, fairly long (5-7.5 cm), supports own weight</td> <td>mod. shiny</td> </tr> <tr> <td>SIC</td> <td>smooth</td> <td>very strong cast</td> <td>thin, fairly long (5-7.5 cm), supports own weight</td> <td>mod. shiny</td> </tr> <tr> <td>C</td> <td>smooth</td> <td>very strong cast</td> <td>very thin, very long (>7.5 cm)</td> <td>very shiny</td> </tr> </tbody> </table>		Feel test	Moist cast test	Worm/ribbon test	Shine test	S	grainy	no cast	none		LS	grainy, slightly floury	weak cast, no handling	none		SIS	grainy, mod. floury	weak cast, no handling	almost flakes		SL	grainy, mod. floury	weak cast, careful handling	barely ribbons (1.5-2 cm)		L	soft, smooth, slight graininess	good cast, readily handled	thick and v. short (<2.5 cm)		SIL	floury, slightly grainy	weak cast, careful handling	flakes rather than ribbons		Si	very floury	weak cast, careful handling	flakes rather than ribbons		SCL	very grainy	moderate cast	short and thick (2.5-5 cm)	slightly shiny	CL	mod. graininess	strong cast	fairly thin, breaks, barely supports own weight	slightly shiny	SICL	smooth and floury	strong cast	fairly thin, breaks, barely supports own weight	slightly shiny	SC	substantial graininess	strong cast	thin, fairly long (5-7.5 cm), supports own weight	mod. shiny	SIC	smooth	very strong cast	thin, fairly long (5-7.5 cm), supports own weight	mod. shiny	C	smooth	very strong cast	very thin, very long (>7.5 cm)	very shiny
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Canadian System of Soil Classification Soil Subgroup Abbreviations

ORDER	GREAT GROUP	SUBGROUP	Abbreviation	
Brunisolic	Melanic Brunisol	Orthic Melanic Brunisol	O.MB	
		Eluviated Melanic Brunisol	E.MB	
		Gleyed Melanic Brunisol	GL.MB	
		Gleyed Eluviated Melanic Brunisol	GLE.MB	
	Eutric Brunisol	Orthic Eutric Brunisol	O.EB	
		Eluviated Eutric Brunisol	E.EB	
		Gleyed Eutric Brunisol	GL.EB	
		Gleyed Eluviated Eutric Brunisol	GLE.EB	
	Sombric Brunisol	Orthic Sombric Brunisol	O.SB	
		Eluviated Sombric Brunisol	E.SB	
		Duric Sombric Brunisol	DU.SB	
		Gleyed Sombric Brunisol	GL.SB	
			Gleyed Eluviated Sombric Brunisol	GLE.SB
		Dystric Brunisol	Orthic Dystric Brunisol	O.DYB
			Eluviated Dystric Brunisol	E.DYB
			Duric Dystric Brunisol	DU.DYB
Gleyed Dystric Brunisol	GL.DYB			
		Gleyed Eluviated Dystric Brunisol	GLE.DYB	
	ORDER	GREAT GROUP	SUBGROUP	abbreviation
	Chernozemic	Brown	Orthic Brown	O.B
			Rego Brown	R.B
Calcareous Brown			CA.B	
Eluviated Brown			E.B	
Solonetzic Brown			SZ.B	
Gleyed Brown			GL.B	
Gleyed Rego Brown			GLR.B	
Gleyed Calcareous Brown			GLCA.B	
Gleyed Eluviated Brown			GLE.B	
Gleyed Solonetzic Brown			GLSZ.B	
Dark Brown		Orthic Dark Brown	O.DB	
		Rego Dark Brown	R.DB	
		Calcareous Dark Brown	CA.DB	
		Eluviated Dark Brown	E.DB	
		Solonetzic Dark Brown	SZ.DB	
		Gleyed Dark Brown	GL.DB	
		Gleyed Rego Dark Brown	GLR.DB	
		Gleyed Calcareous Dark Brown	GLCA.DB	
		Gleyed Eluviated Dark Brown	GLE.DB	
		Gleyed Solonetzic Dark Brown	GLSZ.DB	
Black		Orthic Black	O.BL	
		Rego Black	R.BL	
		Calcareous Black	CA.BL	
		Eluviated Black	E.BL	
		Solonetzic Black	SZ.BL	
		Gleyed Black	GL.BL	
		Gleyed Rego Black	GLR.BL	
		Gleyed Calcareous Black	GLCA.BL	
		Gleyed Eluviated Black	GLE.BL	
		Gleyed Solonetzic Black	GLSZ.BL	
Dark Gray		Orthic Dark Gray	O.DG	
		Rego Dark Gray	R.DG	
		Calcareous Dark Gray	CA.DG	
		Solonetzic Dark Gray	SZ.DG	
		Gleyed Dark Gray	GL.DG	
		Gleyed Rego Dark Gray	GLR.DG	
	Gleyed Calcareous Dark Gray	GLCA.DG		
	Gleyed Solonetzic Dark Gray	GLSZ.DG		

Canadian System of Soil Classification Soil Subgroup Abbreviations

Order	Great Group	Subgroup	Abbreviation	
Cryosolic	Turbic Cryosol	Orthic Turbic Cryosol	O.TC	
		Brunisolic Turbic Cryosol	BR.TC	
		Regosolic Turbic Cryosol	R.TC	
		Gleysolic Turbic Cryosol	GL.TC	
	Static Cryosol	Orthic Static Cryosol	O.SC	
		Brunisolic Static Cryosol	BR.SC	
		Regosolic Static Cryosol	R.SC	
		Gleysolic Static Cryosol	GL.SC	
		Organic Cryosol	Fibric Organic Cryosol	FI.OC
	Mesic Organic Cryosol		ME.OC	
	Humic Organic Cryosol		HU.OC	
	Terric Fibric Organic Cryosol		TFI.OC	
	Terric Mesic Organic Cryosol		TME.OC	
	Terric Humic Organic Cryosol		THU.OC	
		Glacic Organic Cryosol	GC.OC	
Gleysolic	Humic Gleysol	Orthic Humic Gleysol	O.HG	
		Rego Humic Gleysol	R.HG	
		Fera Humic Gleysol	FE.HG	
		Solonetzic Humic Gleysol	SZ.HG	
	Gleysol	Orthic Gleysol	O.G	
		Rego Gleysol	R.G	
		Fera Gleysol	FE.G	
		Solonetzic Gleysol	SZ.G	
	Luvic Gleysol	Orthic Luvic Gleysol	O.LG	
		Humic Luvic Gleysol	HU.LG	
		Fera Luvic Gleysol	FE.LG	
		Fragic Luvic Gleysol	FR.LG	
		Solonetzic Luvic Gleysol	SZ.LG	
	Luvisolic	Gray Brown Luvisol	Orthic Gray Brown Luvisol	O.GBL
			Brunisol Gray Brown Luvisol	BR.GBL
Podzolic Gray Brown Luvisol			PZ.GBL	
Gleyed Gray Brown Luvisol			GL.GBL	
Gleyed Brunisol Gray Brown Luvisol			GLBR.GBL	
Gleyed Podzolic Gray Brown Luvisol			GLPZ.GBL	
Gray Luvisol		Orthic Gray Luvisol	O.GL	
		Dark Gray Luvisol	D.GL	
		Brunisolic Gray Luvisol	BR.GL	
		Podzolic Gray Luvisol	PZ.GL	
		Solonetzic Gray Luvisol	SZ.GL	
		Fragic Gray Luvisol	FR.GL	
		Gleyed Gray Luvisol	GL.GL	
		Gleyed Dark Gray Luvisol	GLD.GL	
		Gleyed Brunisolic Gray Luvisol	GLBR.GL	
		Gleyed Podzolic Gray Luvisol	GLPZ.GL	
		Gleyed Solonetzic Gray Luvisol	GLSZ.GL	
		Gleyed Fragic Gray Luvisol	GLFR.GL	

Canadian System of Soil Classification Soil Subgroup Abbreviations

Order	Great Group	Subgroup	Abbreviation	
Organic	Fibrisol	Typic Fibrisol	TY.F	
		Mesic Fibrisol	ME.F	
		Humic Fibrisol	HU.F	
		Limno Fibrisol	LM.F	
		Cumulo Fibrisol	CU.F	
		Terric Fibrisol	T.F	
		Terric Mesic Fibrisol	TME.F	
		Terric Humic Fibrisol	THU.F	
		Hydric Fibrisol	HY.F	
	Mesisol	Typic Mesisol	TY.M	
		Fibric Mesisol	FI.M	
		Humic Mesisol	HU.M	
		Limno Mesisol	LM.M	
		Cumulo Mesisol	CU.M	
		Terric Mesisol	T.M	
		Terric Fibric Mesisol	TFI.M	
		Terric Humic Mesisol	THU.M	
		Hydric Mesisol	HY.M	
	Humisol	Typic Humisol	TY.H	
		Fibric Humisol	FI.H	
		Mesic Humisol	ME.H	
		Limno Humisol	LM.H	
		Cumulo Humisol	CU.H	
		Terric Humisol	T.H	
		Terric Fibric Humisol	TFI.H	
		Terric Mesic Humisol	TME.H	
		Hydric Humisol	HY.H	
	Folisol	Hemic Folisol	HE.FO	
		Humic Folisol	HU.FO	
		Lignic Folisol	LI.FO	
		Histic Folisol	HI.FO	
	Order	Great Group	Subgroup	Abbreviation
	Podzolic	Humic Podzol	Orthic Humic Podzol	O.HP
			Ortstein Humic Podzol	OT.HP
			Placic Humic Podzol	P.HP
			Duric Humic Podzol	DU.HP
			Fragic Humic Podzol	FR.HP
		Ferro-Humic Podzol	Orthic Ferro-Humic Podzol	O.FHP
			Ortstein Ferro-Humic Podzol	OT.FHP
			Placic Ferro-Humic Podzol	P.FHP
Duric Ferro-Humic Podzol			DU.FHP	
Fragic Ferro-Humic Podzol			FR.FHP	
Luvisolic Ferro-Humic Podzol			LU.FHP	
Sombric Ferro-Humic Podzol			SM.FHP	
Gleyed Ferro-Humic Podzol			GL.FHP	
Gleyed Ortstein Ferro-Humic Podzol			GLOT.FHP	
Gleyed Sombric Ferro-Humic Podzol			GLSM.FHP	
Humo-Ferric Podzol		Orthic Humo-Ferric Podzol	O.HFP	
		Ortstein Humo-Ferric Podzol	OT.HFP	
		Placic Humo-Ferric Podzol	P.HFP	
		Duric Humo-Ferric Podzol	DU.HFP	
		Fragic Humo-Ferric Podzol	FR.HFP	
		Luvisolic Humo-Ferric Podzol	LU.HFP	
		Sombric Humo-Ferric Podzol	SM.HFP	
		Gleyed Humo-Ferric Podzol	GL.HFP	
		Gleyed Ortstein Humo-Ferric Podzol	GLOT.HFP	
		Gleyed Sombric Humo-Ferric Podzol	GLSM.HFP	

Canadian System of Soil Classification Soil Subgroup Abbreviations

Order	Great Group	Subgroup	Abbreviation	
Regosolic	Regosol	Orthic Regosol	O.R	
		Cumulic Regosol	CU.R	
		Gleyed Regosol	GL.R	
		Gleyed Cumulic Regosol	GLCU.R	
	Humic Regosol	Orthic Humic Regosol	O.HR	
		Cumulic Humic Regosol	CU.HR	
		Gleyed Humic Regosol	GL.HR	
		Gleyed Cumulic Humic Regosol	GLCU.HR	
Order	Great Group	Subgroup	Abbreviation	
Solonetzic	Solonetz	Brown Solonetz	B.SZ	
		Dark Brown Solonetz	DB.SZ	
		Black Solonetz	BL.SZ	
		Alkaline Solonetz	A.SZ	
		Gleyed Brown Solonetz	GLB.SZ	
		Gleyed Dark Brown Solonetz	GLDB.SZ	
		Gleyed Black Solonetz	GLBL.SZ	
	Solodized Solonetz	Brown Solodized Solonetz	B.SS	
		Dark Brown Solodized Solonetz	DB.SS	
		Black Solodized Solonetz	BL.SS	
		Dark Gray Solodized Solonetz	DG.SS	
		Gray Solodized Solonetz	G.SS	
		Gleyed Brown Solodized Solonetz	GLB.SS	
		Gleyed Dark Brown Solodized Solonetz	GLDB.SS	
	Gleyed Black Solodized Solonetz	GLBL.SS		
	Gleyed Dark Gray Solodized Solonetz	GLDG.SS		
	Gleyed Gray Solodized Solonetz	GLG.SS		
	Solod	Brown Solod	B.SO	
		Dark Brown Solod	DB.SO	
		Black Solod	BL.SO	
		Dark Gray Solod	DG.SO	
		Gray Solod	G.SO	
		Gleyed Brown Solod	GLB.SO	
		Gleyed Dark Brown Solod	GLDB.SO	
		Gleyed Black Solod	GLBL.SO	
		Gleyed Dark Gray Solod	GLDG.SO	
	Gleyed Gray Solod	GLG.SO		
	Order	Great Group	Subgroup	Abbreviation
	Vertisolic	Vertisol	Orthic Vertisol	B.SZ
Gleyed Vertisol			DB.SZ	
Gleysolic Vertisol			BL.SZ	
Humic Vertisol		Orthic Humic Vertisol	B.SS	
		Gleyed Humic Vertisol	DB.SS	
		Gleysolic Humic Vertisol	GLG.SO	