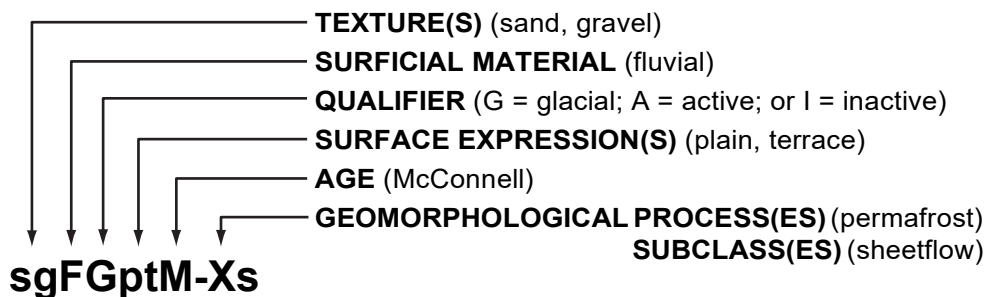


Key to Terrain Classification and Surficial Geology Map Unit Labels

Based on the Terrain Classification System for British Columbia (Howes & Kenk, 1997)



TEXTURE - up to 3 lower case letters in front of surficial material

a	blocks (>256 mm, angular)
b	boulders (>256 mm, rounded)
k	cobble (64-256 mm, rounded)
p	pebbles (2-64 mm, rounded)
s	sand (0.062 - 2 mm)
z	silt (0.002 - 0.062 mm)
c	clay (<0.002 mm)
m	mud (mix of silt and clay)
d	mixed fragments (>2 mm, rounded and angular)
g	gravel (>2 mm, rounded; mix of b, k, p)
x	angular fragments (>2 mm; mix of r & a)
r	rubble (2-256 mm, angular particles)
y	shells (shells or shell fragments)
n	salt*
e	fibric organic (poorly decomposed)
u	mesic organic (intermediate decomposition)
h	humic organic (highly decomposed)

SURFICIAL MATERIAL - first single upper case letter shown in map unit. (Upper case letter immediately following surficial material is the glacial or activity **QUALIFIER**.)

A	Anthropogenic
C	Colluvium
D	Drift (green) or Weathered Bedrock (pink)
E	Eolian
EA	Active Eolian
F	Fluvial
FA	Active Floodplain
FG	Glaciofluvial
H	Water*
I	Ice (Glacier)
L	Lacustrine
LG	Glaciolacustrine
M	Morainal (till)
O	Organic
R	Bedrock
S	Snow Patches*
U	Undifferentiated materials
UG	Glacial Drift*
V	Volcanic
WA	Marine

SURFACE EXPRESSION - up to 3 lower case letters following surficial material

a	apron	p	Plain
b	blanket (>1 m thick)	r	ridge(s)
c	cone(s)	t	terrace(s)
d	depression(s)	u	Undulating
f	fan(s)	v	veneer (0.1 - 1 m thick)
h	hummock(s)	w	mantle of variable thickness
l	delta	x	thin veneer (2 - 20 cm thick)
m	Rolling		

COMPONENT DELIMITERS - separators for up to 4 components that may be included in a map unit label. All components are listed before process(es)
sgFGptM.dsmMbM/xsCv\zcLGpM-XsV

.	components on either side of the "." symbol are of approximately equal proportion
/	the component in front of the "/" symbol is more extensive than the one that follows
//	the component in front of the "//" symbol is considerably more extensive than the one that follows
\	the component(s) in front of the "\" symbol stratigraphically overlies the component(s) that follows
;	"or" (unspecified - the component on the left or right may be present)*

AGE - single upper case letter following surface expression

H	Holocene
N	Neoglacial
<M	Postglacial
>H	pre-Holocene
S	Laurentide, Tutsieta
M	McConnell (late Wisconsinan)
S	Laurentide, Tutsieta (late Wisconsinan)
L	Laurentide, maximum (late Wisconsinan)
G	Gladstone (early Wisconsinan)
>G	pre-Gladstone
>M	pre-McConnell
R	Reid (Illinoian)
>R	pre-Reid (Pliocene - early Pleistocene)
P	Pleistocene undifferentiated
Q	Quaternary
>Q	pre-Quaternary
T	Tertiary
U	undifferentiated

GEOMORPHOLOGICAL PROCESS - up to 3 upper case letters following dash "-". Lower case letters indicate subclasses.

-V	Gully erosion
-B	Braided floodplain
-I	Irregularly sinuous floodplain
-J	Anastomosing floodplain
-M	Meandering floodplain
-A	Snow avalanches
-F	Slow landslide (subclasses: g = rock creep)
-R	Rapid landslide (subclasses: b = rockfall; d = debris flow)
-L	Undifferentiated landslide (subclasses: s = slide; u = slump)
-C	Cryoturbation
-N	Nivation
-S	Solifluction
-Z	General periglacial processes (-C, -N & -S combined)
-X	Permafrost (subclasses: s = sheetflow; t = thermokarst)
-E	Glacial meltwater channels
-H	Kettled
-T	Glacial ice-contact
-U	Inundation

Yukon Terrain Classification System

We have adopted the British Columbia Terrain Classification System (Howes & Kenk, 1997) as a legend standard and database structure for surficial geology mapping in Yukon. This system was selected largely because of its flexibility, the existence of well documented digital capture standards, the ease with which specific surficial geology characteristics can be searched in a database, the potential to produce derivative maps for a variety of end-users, and to maintain a consistent map legend between Yukon and BC.

- To view the complete BC terrain classification system and code descriptions, please click on the link below:

Howes, D.E. and Kenk, E., 1997. Terrain classification system for British Columbia (version 2). Province of British Columbia, Resource Inventory Branch, Ministry of Environment, Lands and Parks; Recreational Fisheries Branch, Ministry of Environment; and Surveys and Mapping Branch, Ministry of Crown Lands.

https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/terclass_system_1997.pdf

Modifications to the BC classification system:

Some modifications to the BC classification system were made to accommodate additional landforms, processes and permafrost features common in Yukon. These changes are summarized below:

Surface Expressions:

- slope steepness codes “j”, “a”, “k” and “s” were discarded
- “a” was changed to indicate “apron”
- “l” was added to indicate “delta”

Surficial Materials:

- “H” was added to indicate “water bodies”
- “S” was added to indicate “snow patches”
- “D” indicates weathered bedrock in unglaciated areas

Geomorphological Processes:

- “-L” in reference to “surface seepage” was discarded
- “-L” was changed to indicate “mass movements of undifferentiated velocity”
- “-T” was added to indicate “ice-contact” glacial processes

Geomorphological Process Subclasses:

- “b” was added to indicate “beaver damming” (i.e. “-Ub”)
- “c” was added to indicate “cryoplanation” (i.e. “-Zc”)
- “l” was added to indicate “segregated ice” (i.e. “-Xl”)
- “n” was added to indicate “open-system pingos” (i.e. “-Xn”)
- “s” was added to indicate “sheetwash” (i.e. “-Xs”)

Surficial Geology Legend

Polygon Features

Surficial Material A, Qualifier A, Age A

unmapped	H; ;
A; ;	I; ;
C; ;	I; ;N
C; ;N	L; ;
C; ;<M	L; ;<M
C; ;>H	L; ;U
C; ;M	L;G;<M
C; ;R	L;G;H
C; ;>R	L;G;N
C; ;P	L;G;M
C;I;	L;G;L
D; ;	L;G;>M
E; ;	L;G;R
E; ;<M	L;G;U
E; ;P	M; ;N
E;A;	M; ;<M
F; ;	M; ;>H
F; ;N	M; ;M
F; ;<M	M; ;L
F; ;>H	M; ;>L
F; ;M	M; ;G
F; ;>M	M; ;>G
F; ;R	M; ;>M
F; ;>R	M; ;R
F; ;P	M; ;>R
F; ;T	M; ;U
F;A;	O; ;
F;A;<M	O; ;<M
F;G;	R; ;
F;G;N	R; ;P
F;G;M	S; ;
F;G;L	U; ;
F;G;G	U;G;M
F;G;>G	U;G;>M
F;G;>M	U;G;>R
F;G;R	V; ;
F;G;>R	V; ;<M
F;G;U	W;A;

Polygon Features: Simple

Material A, Qualifier A

A,	L,
C,	L, G
C, I	M,
D,	O,
E,	R,
E, A	S,
F,	U,
F, A	U, G
F, G	V,
H,	W, A
I,	

Map Index

Map Scale

1:10,000-25,000
1:50,000
1:100,000-125,000
1:250 000

Line Features by AGE

TYPE, VALIDITY, AGE

glacial limit, approximate, L
glacial limit, approximate, M
glacial limit, approximate, R
glacial limit, approximate, >R
glacial limit, approximate, U
glacial limit, assumed, M
glacial limit, assumed, G
glacial limit, assumed, R
glacial limit, assumed, >M
glacial limit, assumed, >R
glacial limit, defined, L
glacial limit, defined, M
glacial limit, defined, G
glacial limit, defined, R
glacial limit, defined, >R
glacial limit, defined, U
glacial limit, unclassified, M
glacial limit, unclassified, R
glacial limit, unclassified, >M
glacial limit, unclassified, >R
glacial limit, unclassified, U

Line Features by TYPE

arete
arete or cirque
avalanche track
berm
cirque
crevasse filling
cross section profile
cryoplanation terrace
drift ridge
escarpment
esker, flow direction assumed
esker, flow direction known
esker, flow direction unknown
fault
geological boundary
glacial lake shoreline
glacial limit
gully
ice-flow direction
landslide
landslide direction of movement
landslide headwall scarp
limit of mapping
lineament
map edge
marine beach, bar, or spit
meltwater channel, major
meltwater channel, major, flow direction
meltwater channel, minor, flow direction known
meltwater channel, minor, flow direction unknown
moraine ridge
paleoflow
ravine or canyon
recessional glacial limit
sand dunes
shoreline
streamlined landform, ice-flow direction known
streamlined landform, ice-flow direction unknown
tension crack
water track

Surficial Geology Legend

Point Features

TYPE, SUBTYPE

☆	avalanche slope, unclassified	∩	permafrost mound, unclassified
	bedding, unclassified	●	pingo, closed-system
×	bedrock outcrop, unclassified	●	pingo, collapsed, open-system
U	cryoplanation terrace, unclassified	○	pingo, open-system
▽	delta, unclassified	⊕	pingo, unclassified
⊙	drill hole, unclassified	U	sand dunes, cliff top
●	drill hole, water well	U	sand dunes, unclassified
▲	erratic, unclassified	U	sand dunes, active
△	erratic not found, unclassified	U	sand dunes, inactive
Ⓔ	fossil, unclassified	●	spring, unclassified
×	glacially scoured bedrock, unclassified	×	stratigraphic section, unclassified
×	gravel pit, active or recently active	■	radiocarbon dated sample, unclassified
×	gravel pit, historical	■	till sample, geochemistry
×	gravel pit, unclassified	■	stream sediment sample, geochemistry
●	ground observation site, unclassified	■	sample, cosmogenic
○	ground ice observation and depth, unclassified	■	sample, heavy mineral
⊗	kame, unclassified	□	sample, unclassified
⊗	kettle hole, unclassified	↑	streamlined landform, ice-flow direction known, drumlin or drumlinoid
→	landslide direction of movement, unclassified	↑	streamlined landform, ice-flow direction unknown, drumlin or drumlinoid
↑	landslide, retrogressive thaw flow	↑	streamlined landform, ice-flow direction known, crag and tail
★	landslide, active layer detachment	↑	streamlined landform, ice-flow direction known, rat tail
★	landslide, debris flow	↑	streamlined landform, ice-flow direction known, striae or grooves
★	landslide, rockfall	↑	streamlined landform, ice-flow direction unknown, striae or grooves
★	landslide, rockslide	↑	streamlined landform, ice-flow direction known, till fabric
★	landslide, slump	↑	streamlined landform, ice-flow direction known, roche moutonnée
★	landslide, slump in bedrock	↑	streamlined landform, ice-flow direction known, undifferentiated lineations and flutings
★	landslide, slump in surficial material	↑	streamlined landform, ice-flow direction unknown, undifferentiated lineations and flutings
★	landslide, unclassified	↑	streamlined landform, ice-flow direction unknown, *check map
∩	large hummock, unclassified	⌞	thermokarst collapse, unclassified
→	meltwater channel, minor, flow direction known, lateral	+	tor, unclassified
⌘	mine, hard rock	●	unknown, unclassified
⌘	mine, placer		
U	nivation terrace, unclassified		
▼	observation of frozen ground, unclassified		
#	palsa, unclassified		
#	patterned ground, unclassified		