Lithology				Lithology (cont)			
CATEGORY	CODE	LITHOLOGY	New Lith_ID	CATEGORY	CODE	LITHOLOGY	New Lith_ID
COVER SEQUENCES	CFIL	Undifferentiated fill eg: drill pad/road rubble		INTRUSIVES	IFUND	Felsic undifferentiated intrusive	
	CLOS	Core loss - no lithology			IFGRAD	Granite	
	CAVE	Cavity or old workings			IFGRAD	Granodiorite	
	CASH	Recent ash fall			IFADAM	Adamellite	
	CSOILA	A horizon soil			IFPEG	Pegmatite	
	CSOILB	B horizon soil			IFGA	Intrusive fine grained granite - aplite or microgranile	
	CALUV	Alluvium			IIUND	Intrusive intermediate undifferentiated	
	CCOL	Colluvium			IISY	Syenite	
	CELUV	Elluvium			IID	Diorite (plag dominant, includes porphyry)	
	CAEOL	Aeolian			IIM	Monzonite (typically k-felds 35-65%, includes porphyry)	
	CHRD	Hardpan			IIT	Tonalite (qtz bearing [>20%] diorite, includes porphyry)	
	CFCT	Ferricrete			IIMDI	monzodiorite (plag rich up to 90%, includes porphyry)	
	CCCT	Calcrete			IIA	Anorthosite	
	CSCT	Silcrete			IMUND	Mafic intrusive - undifferentiated	
	CGOSS	Gossan !			IMGB	Gabbro	
SEDIMENTARY	SUCLAST	sedimentary undifferntiated clastic			IMDL	Dolerite	
	SUCHEM	sedimentary undifferntiated chemical			IMN	Norite	
	SSHALE	shale (includes carbonaceous/graphitic fine layered sediments			IUUND	Ultramafic intrusive undiferentiated	
	SMDST	mudstone			IUPYRX	Pyroxenite	
	SSILT	siltstone			IUPERID	Peridotite	
	SSAND	sandstone - grain size not measured			IUDUNT	Dunite	
	SCONG	conglomerate - grainsize not measured		TECTONIC	TFBX	Fault breccia	
	SGWAC	greywacke			TCATA	Cataclasite	
	SFSAND	Fine sandstone (0.06-0.25mm)			TMYO	Myolinite	
	SMSAND	Medium sandstone (0.25-0.5mm)			TFG	Fault gouge	
	SCSAND	Coarse sandstone (0.5-2mm)		METAMORPHIC	MUSED	Undifferentiated metasediments	
	SGRANSAND	Granule sandstone - max detrital qtz grains 2-4mm			MSLAT	Slate	
	SGRANCONG	Granule conglomerate >50% 2-4mm grains/clasts			MPHYL	Phyllite	
	SPEBSAND	Pebble sandstone - max detrital qtz grains 4-64mm			MSHST	Schist	
	SPEBCONG	Pebble conglomerate >50% 4-64mm clasts			MQTZ	Quartzite	
	SCOBCONG	Cobble conglomerate clasts > 64mm commonly present			MHORN	Hornfels	
	SVCONG	Conglomerate with dominant volcanic clasts			MMBL	Marble	
	STILL	Tillite			MGN	Gneiss	
	SARK	arkose			MFGN	Felsic Gneiss	
	SESST	Epiclastic sandstone			MIGN	Intermediate gneiss	
	SBREC	Sedimentary breccia			MMSHST	Mafic schist	
	SCHERT	Chert			MMGN	Mafic Gneiss	
	SDOLM	Dolomite			MMA	Amphibolite	
	SLMST	Limestone			MUMSHST	Ultramafic schist	
	SLMST	Limestone			MUMSERP	Serpentinite	
	SBIFOX	Banded Iron Formation - Oxide Facies		STRONGLY MINERALISED / ALTERED	MSSX	Massive Sulphide ! - only to be used where the rock type is not clear, MSSX should be used primarily as an alteration/mineralisation code	
	SBIFCB	Banded Iron Formation - Carbonate Facies			MSSXC	Massive Sulphide (cumulate)	
	SBIFSX	Banded Iron Formation - Sulphide Facies		OTHER	OSKARN	Skarn - Only to be used where no primary textures are seen and alteration is pervasive and strong, undifferentiated sedimentary or igneous code code should be used as a preference	
	SCOAL	Coal			OVEIN	Vein - only to be used where the whole interval consitst of a vein or >60% veining where alteration is so strong that primary textures are not evident, undifferentiated sedimentary or igneous code code should be used as a preference and vein orientations should be stored in structure	
VOLCANICLASTICS	VMDST	volcaniclastic mudstone			OIL	Lamprophyre	
	VSLST	volcaniclastic siltstone			OIK	Kimberlite	
	VSST	volcaniclastic sandstone			OIC	Carbonatite	
	VQXSST	quartz-crystal-rich volcaniclastic sandstone			OIP	Pepperite (dercribe phases fully)	
	VPSST	Pumecious volcaniclastic sandstone			OHBX	Hydrothermal breccia	
	VLLSST	Lapilli lithic volcaniclastic sandstone (lapilli size lithics)					
	VBLSST	Block lithic volcaniclastic sandstone (block sized lithics)					
	VB	volcanic breccia (undifferentiated origin)					
	VBB	volcanic block breccia (undifferentiated origin)					
	VUND	Undifferentiated volcaniclastic					
LAVAS	LFR	Rhyolite lava					
	LFD	Dacite lava					
	LIT	Trachyte - typically packed feldspars					
	LIA	Andesite lava					
	LMB	Basalt lava					
	LFUND	Undifferentiated felsic lava					
	LIUND	Undifferentiated intermediate lava					
	LMUND	Undifferentiated mafic lava					
	LUUND	Ultramafic lava - undifferentiated					
	LUKOMT	Komatiite					

Mineralisation

Min Code	Mineralisation and Alteration	Lith_ID
QVN	quartz veining	49
SQV	sulphide-bearing quartz vein	50
SiSX	silica - sulphide	
MSSX	massive sulphide	51
SMSX	semi-massive sulphide	52
DSX	disseminated sulphides	53
Chl	chlorite	54
Ser	sericite	55
Sil	silica - pervassive	56
KSP	Potassic (K feldspar dominated- bio-ser-act-kfp-qtz-mnt-cpx)	57
Fuc	Fuchsite	58
Cb	Carbonate	59
OX	Oxidised, including FeO	60
Phyl	Phyllic (qtz-ser-pyr-fpr-cht-and-corr-kfp)	64
Prop	Propylitic (epd-crb-chl-mnt-sme-sil-zeo-ill-alb-adu)	65
Arg	Argillic (chy-all-sme-crb-qtz-kao-dic-dia-ill)	66
HORN	Hornfelsing	67
CALS	Calc-silicate replacement (commonly amphibole dominated - trm/act-qtz-cal-dol)	68
CSP	Calc-Silicate/ Skarn (pyroxene dominated - cpx-qtz-cal-dol-wol-ves-gnt-mnt)	
SILI	Intense silicifiation	69
SKARN	Skarn alteration (eg: Garnet-diopside)	70
KBI	Potassic (biotite dominated - bio-ser-act-kfp-qtz-mnt-cpx)	
KSE	Potassic (sericite dominated - bio-ser-act-kfp-qtz-mnt-cpx)	
ADA	Advanced Argillic (qtz-all-and-cor-pyr-dia-mic)	
GREISEN	Greisenisation (eg: flourite, beryl, topaz, sericite etc)	
SER	Serpentinisation	
HEM	Hematisation	

Intensity

CODE	DESCRIPTION	Number
vw	very weak	<10%
w	weak	0 to 20%
w/m	weak/moderate	~40%
m	moderate	20 to 60%
m/s	moderate/strong	~60%
s	strong	>60%
vs	very strong	>90%

Weathering

CODE	Amount	Descriptive Guide
T	Trace	Weathering only visible in a couple of hand lens area
O	Occasional	Weathering visible over a number of hand lens areas
W	Weak	Fresh rock only visible in couple of hand lens areas
M	Moderate	No fresh rock visible, but rock still intact
S	Strong	No fresh rock visible, parts of rock broken down to soft material
I	Intense	Nearly all rock broken down to soft material or clay

Stratigraphy

Stratigraphic Name	Strat Code
Cambro-Ordovician Sandstone (Moina Sandstone)	Cos
Cambrian Granite	Cg
Tertiary Basalt	Tb
Tertiary Sediments	Ts
	pC

Amount

Number	%
0.1	trace
0.5	0.50%
1	1%
2	2%
3	3%
4	4%
5	5%
6	6%
7	7%
8	8%
9	9%
10	10%
15	15%
20	20%
25	25%
30	30%
40	40%
50	50%
60	60%
70	70%
80	80%
90	90%
100	100%

Mineral style

CODE	Deecription
P	Pervasive
D	Disseminated
Vn	Vein
Sp	Spots and clots
Eu	Euhedral crystals
Sv	Selvedge
SP	Semi-pervassive
Gr	Greisen
Br	Breccia
Rp	Replacement
Sk	Skarn
Bnd	Banded
Den	Dendritic

Colours

CODE	Colour
Br	Brown
A	Grey
N	Black
Y	Yellow
R	Red
Gr	Green
W	White
O	Orange
Bl	Blue
P	Purple
C	Cream
Pk	Pink

Shade

Number	Shade
1	Pale
2	
3	
4	
5	Dark

Mineral Type

Code	Mineral
Py	Pyrite
Aspy	Arsenopyrite
Sb	Stibnite
Ga	Galena
Sp	Sphalerite
Cpy	Chalcopyrite
Cv	Covellite
Cc	Chalcocite
Bn	Bornite
Mo	Molybdenite
Pn	Pentlandite
Po	Pyrrhotite
Mc	Marcasite
Bism	Bismuthinite
Tetn	Tetrahedrite-Tennantite
Mag	Magnetite
He	Hematite
Wolf	Wolframite
Cst	Cassiterite
Cw	Cuprite
Mal	Malachite
Cs	Cerrusite
Au	Visible Au
Cu	Native Copper
Ag	Native Silver
Ad	Adularia
Al	Alunite
Dik	Dickite
Il	Illite
Ka	Kaolinite
Pry	Pyrophyllite
Chd	Chalcedony
Qz	Quartz
Zeo	Zeolite
Sm	Smectite
Se	Sericite
Ch	Chlorite
Ep	Epidote
Cb	Carbonate
Cl	Calcite
Dol	Dolomite
Rh	Rhodochrosite
Sd	Siderite
Mgs	Magnesite
Ahd	Anhydrite
Ba	Barite
En	Enargite
Pyr	Pyrargite
Tml	Tourmaline
Fl	Flourite
Act	Actinolite
Tr	Tremolite
Wo	Wollastinite
Ves	Vesuvianite
Fuch	Fuchsite
Mu	Muscovite
Bi	Biotite
Ap	Apatite
Cd	Cordierite
Im	Ilmenite
Rt	Rutile
Gt	Garnet
Si	Silicification
Am	Amphibole
Hb	Hornblende
Cpx	Clinopyroxene
Di	Diopside
Alb	Albite
Kf	K-Feldspar
Ck	Chrysocolla
Pi	Psilomelane
Mn	Pyrolusite
Li	Limonote
Go	Goethite
Jr	Jarosite
FMag	ferromagnesian minerals