Lithology

CATEGORY	CODE	LITHOLOGY	New Lith_ID
COVER SEQUENCES	CFIL	Undifferentiated fill eg: drill pad/road rubble	
	CLOS	Core loss - no lithology	
	CAVE	Cavity or old workings	
	CASH	Recent ash fall	
	CSOILA	A horizon soil	
	CSOILB	B horizon soil	
	CALUV	Alluvium	
	CCOL	Colluvium	
	CELUV	Elluvium	
	CAEOL	Aeolian	
	CHRD	Hardpan	
	CFCT	Ferricrete	
	CCCT	Calcrete	
	CSCT	Silcrete	
	CGOSS	Gossan !	
SEDIMENTARY	SUCLAST	sedimentary undifferntiated clastic	
	SUCHEM	sedimentary undifferntiated chemical	
	SSHALE	shale (includes carbonaceous/graphitic fine layered sediments	
	SMDST	mudstone	
	SSILT	siltstone	
	SSAND	sandstone - grain size not measured	
	SCONG	conglomerate - grainsize not measured	
	SGWAC	greywacke	
	SFSAND	Fine sandstone (0.06-0.25mm)	
	SMSAND	Medium sandstone (0.25-0.5mm)	
	SCSAND	Coarse sandstone (0.5-2mm)	
	SGRANSAND	Granule sandstone - max detrital qtz grains 2-4mm	
	SGRANCONG	Granule conglomerate >50% 2-4mm grains/clasts	
	SPEBSAND	Pebble sandstone - max detrital qtz grains 4-64mm	
	SPEBCONG	Pebble conglomerate >50% 4-64mm clasts	
	SCOBCONG	Cobble conglomerate clasts > 64mm commonly present	
	SVCONG	Conglomerate with dominant volcanic clasts	
	STILL	Tillite	
	SARK	arkose	
	SESST	Epiclastic sandstone	
	SBREC	Sedimentary breccia	
	SCHERT	Chert	
	SDOLM	Dolomite	
	SLMST	Limestone	
	SLMST	Limestone	
	SBIFOX	Banded Iron Formation - Oxide Facies	
	SBIFCB	Banded Iron Formation - Carbonate Facies	
	SBIFSX	Banded Iron Formation - Sulphide Facies	
	SCOAL	Coal	
VOLCANICLASTICS	VMDST	volcaniclastic mudstone	
	VSLST	volcaniclastic siltstone	
	VSST	volcaniclastic sandstone	
	VQXSST	quartz-crystal-rich volcaniclastic sandstone	
	VPSST	Pumecious volcaniclastic sandstone	
	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	

Lithology (cont)

CATEGORY	CODE	LITHOLOGY	New Lith_ID
INTRUSIVES	IFUND	Felsic undifferentiated intrusive	
	IFGRAD	Granite	
	IFGRAD	Granodiorite	
	IFADAM	Adamellite	
	IFPEG	Pegmatite	
	IFGA	Intrusive fine grained granite - aplite or microgranile	
	IIUND	Intrusive intermediate undifferentiated	
	IISY	Syenite	
	IID	Diorite (plag dominant, includes porphyry)	
	IIM	Monzonite (typically k-felds 35-65%, includes porphyry)	
	IIT	Tonalite (qtz bearing [>20%] diorite, includes porphyry)	
	IIMDI	monzodiorite (plag rich up to 90%, includes porphyry)	
	IIA	Anorthosite	
	IMUND	Mafic intrusive - undifferentiated	
	IMGB	Gabbro	
	IMDL	Dolerite	
	IMN	Norite	
	IUUND	Ultramafic intrusive undifferentiated	
	IUPYRX	Pyroxenite	
	IUPERID	Peridotite	
	IUDUNT	Dunite	
TECTONIC	TFBX	Fault breccia	
	TCATA	Cataclasite	
	TMYO	Myolinite	
	TFG	Fault gouge	
METAMORPHIC	MUSED	Undifferentiated metasediments	
	MSLAT	Slate	
	MPHYL	Phyllite	
	MSHST	Schist	
	MQTZ	Quartzite	
	MHORN	Hornfels	
	MMBL	Marble	
	MGN	Gneiss	
	MFGN	Felsic Gneiss	
	MIGN	Intermediate gneiss	
	MMSHST	Mafic schist	
	MMGN	Mafic Gneiss	
	MMA	Amphibolite	
	MUMSHST	Ultramafic schist	
	MUMSERP	Serpentinite	
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	
	MSSXC	Massive Sulphide (cumulate)	
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	
	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	
	OIL	Lamprophyre	
	OIK	Kimberlite	
	OIC	Carbonatite	
	OIP	Pepperite (dercribe phases fully)	
	OHBX	Hydrothermal breccia	

Mineralisation

Min Code	Mineralisation and Alteration	Lith_ID
QVN	quartz veining	
SQV	sulphide-bearing quartz vein	
SiSX	silica - sulphide	
MSSX	massive sulphide	
SMSX	semi-massive sulphide	
DSX	disseminated sulphides	
Chl	chlorite	
Ser	sericite	
Sil	silica - pervassive	
KSP	Potassic (K feldspar dominated- bio-ser-act-kfp-qtz-mnt-cpx)	
Fuc	Fuchsite	
Cb	Carbonate	
OX	Oxidised, including FeO	
Phyl	Phyllic (qtz-ser-pyr-fpr-cht-and-corr-kfp)	
Prop	Propylitic (epd-crb-chl-mnt-sme-sil-zeo-ill-alb-adu)	
Arg	Argillic (chy-all-sme-crb-qtz-kao-dic-dia-ill)	
HORN	Hornfelsing	
CALS	Calc-silicate replacement (commonly amphibole dominated - trm/act-qtz-cal-dol)	
CSP	Calc-Silicate/ Skarn (pyroxene dominated - cpx-qtz-cal-dol-wol-ves-gnt-mnt)	
SILI	Intense silicifiation	
SKARN	Skarn alteration (eg: Garnet-diopside)	
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	

Amount

Number	%
49	0.1 — trace
50	0.5 — 0.50%
	1 — 1%
51	2 — 2%
52	3 — 3%
53	4 — 4%
54	5 — 5%
55	6 — 6%
56	7 — 7%
57	8 — 8%
58	9 — 9%
59	10 — 10%
60	15 — 15%
64	20 — 20%
65	25 — 25%
66	30 — 30%
67	40 — 40%
68	50 — 50%
	60 — 60%
69	70 — 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-pervasive
Gr	Greisen
Br	Breccia
Rp	Replacement
Sk	Skarn
Bnd	Banded
Den	Dendritic

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
Ci	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

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

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

Stratigraphy

Stratigraphic Name	Strat Code
Cambro-Ordovician Sandstone (Moina Sandstone)	Cos
Cambrian Granite	Cg
Tertiary Basalt	Tb
Tertiary Sediments	Ts
PreCambrian Metamorphics	pC
Cambrian Porphyry	Cp
Quaternart Alluvium	Q
Undifferentiated Cambrian Volcanic Sequence	Cu