

Colour		Colour	
CODE	Description	CODE	Description
gn	Green	bl	Blue
pgn	Pale green	pbl	Pale Blue
dgn	Dark Green	dbl	Dark Blue
gn-br	Green-brown	bl-bk	Blue-black
gn-bk	Green-black	bl-pl	Blue-purple
gn-rd	Green-red	bl-br	Blue-brown
gn-pl	Green-purple	bl-gy	Blue-grey
gn-yl	Green-yellow	bl-gn	Blue-green
gg	Green-grey	pl	Purple
br	Brown	ppl	Pale purple
lb	light brown	dpl	Dark Purple
dbr	Dark brown	pl-rd	Purple-red
br-rd	Brown-red	pl-bl	Purple-blue
br-bk	Brown-black	pl-gn	Purple-green
br-gn	Brown-green	pl-br	Purple-brown
br-or	Brown-orange	pl-bk	Purple-black
br-yl	Brown-yellow	pl-gy	Purple-grey
br-gy	Brown-grey	yl	Yellow
rd	Red	pyl	Pale yellow
prd	Pale Red	dyl	Dark yellow
drd	Dark red	yl-or	yellow-orange
rd-or	Red-orange	yl-rd	yellow-red
rd-br	Red-brown	yl-gn	yellow-green
rd-gn	Red-green	yl-br	yellow-brown
rd-bk	Red-black	yl-gy	yellow-grey
rd-pl	Red-purple	gy	Grey
rd-yl	Red-yellow	pgy	Pale Grey
rd-gy	Red-grey	dgy	Dark grey
pk	Pink	gy-rd	Grey-red
bk	Black	gy-or	Grey-orange
bk-rd	Black-red	gy-gn	Grey-green
bk-or	Black-orange	gy-pl	Grey-purple
bk-br	Black-brown	gy-br	Grey-brown
bk-bl	Black-blue	gy-bk	Grey-black
bk-gn	Black-green	gy-yl	Grey-yellow
bk-pl	Black-purple	wh	White
bk-yl	Black-yellow		
bk-gy	Black-grey		

Grain Size			
CODE	Descriptio	Sedimentary	Igneous/Metamorphic
cy	Clay	<1/256 mm	NA
st	Silt	1/256 - 1/32 mm	NA
vf	Very Fine	1/32 - 1/8 mm	<0.1 mm
fg	Fine	1/8 - 1/4 mm	0.1 - 1mm
mg	Medium	1/4 - 1/2 mm	1 - 3 mm
cg	Coarse	1/2 - 1mm	3 - 10 mm
vg	Very coarse	1 - 2 mm	>10mm
gn	Granule	2 - 4mm	NA
pb	Pebble	4 - 64 mm	NA
cb	Cobble	64 - 256 mm	NA
bu	Boulder	>256	NA
pa	Pegmatitic	NA	>30mm

Hardness		
CODE	Term	Description
UC	Unconsolidated	Unconsolidated
VW	Very Weak	may be broken by hand
W	Weak	Crumbles under firm blow with sharp end of geological hammer
MW	Moderatly Weak	Cannot be cut by hand into triaxial specimen
MS	Moderatly Strong	5mm indentation with sharp end of geological hammer
S	Strong	Hand held specimen can be broken
VS	Very Strong	More than one blow of geological hammer required to break specimen
ES	Extreamly Strong	More than one blow of geological

Weathering		
Code	Term	Description
FR	Fresh	No visible sign of rock material weathering
SW	Slightly waethered	Discoloration indicates weathering of rock material on discontinuity surfaces. <5% of rock mass altered.
MW	Moderately Waethered	<50% of the rock material is decomposed and/or disintegrated to soil. Fresh or discoloured rock is present either as a discontinuous framework or as corestones.
HW	Highly weathered	>50% of the rock material is decomposed and/or disintegrated to soil. Fresh or discoloured rock is present as a discontinuos framework or as corestones.
EW	Extremely Weathered	100% of the rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.
CW	Completely Weathered	Rock exhibits soil-like properties (ie can be remoulded), some rock fragments may remain
RS	Soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has been significantly transpoted.

Regolith Primary		Regolith Secondary		Regolith Tertiary	
CODE	Description	CODE	Description	CODE	Description
Relict		Bedrock		OverPrints / Duricrust	
V	Inverted - ferricrete/laterite	u	Mafic Ultramafic	k	Calcareous
I	In situ - ferricrete/laterite	m	Metamorphic	f	Ferrigenous
Erosional		g	Granitoid	z	Silcrete/silicified
M	Mottled saprolite	i	Felsic/intermediate	n	Manganiferous
S	Saprock	s	Sediment	y	Gypsiferous
P	Pedolith	Component		h	Hardpan
U	Upper saprolite	q	Quartz	d	Magnesite
L	Lower saprolite	l	Bleached	Component	
F	Fresh rock	d	Pea gravel - lateritic - distal	q	Quartz
Depositional		c	Clay	l	Bleached
E	Eluvium	p	Plasmic	d	Pea gravel - lateritic - distal
C	Colluvium	w	Pallid	c	Clay
A	Alluvium	a	Arenose	p	Plasmic
Y	Playa	i	Mixed lithic and lateritic	w	Pallid
Z	Sand	t	Lateritic - proximal	a	Arenose
W	Sheetwash	b	Black soil	i	Mixed lithic and lateritic
N	Marine	v	Gravel/pebble/cobble	t	Lateritic - proximal
G	Glacial	r	Lithic	b	Black soil
Speciall		m	Loam	v	Gravel/pebble/cobble
D	Disturbed / Man Made Material	g	Gypsiferous	r	Lithic
X	Soil	x	Breccia	m	Loam
		z	Silt	g	Gypsiferous
		4	Corestones	x	Breccia
		5	Pisolite	z	Silt
		6	Smectite	4	Corestones
		7	Reduced	5	Pisolite
				6	Smectite
				7	Reduced

Fabric

CODE	Description
AU	Augen
AN	Annealed fractures
BO	Boudinaged
BX	Brecciated
CM	Chilled margin
CR	Crenulated
CT	Contorted
FD	Folded
FE	Flattened - elongate minerals
FG	Fragmented
FM	Foliation moderate
FS	Foliation strong
FT	Faulted
FW	Foliation weak
GH	Ghosted minerals
KB	Kink banded
LN	Lineated
MY	Mylonitic
PO	Preferred orientation
SC	Schlieren
SH	Sheared
SY	Styrolitic
XM	Fractured moderately
XS	Fractured strongly
XW	Fractured weakly
BD	Brittle ductile

Texture

CODE	Description
at	Adcumulate
al	Agglomerate
ay	Amygdaloidal
bd	Banded
bx	Breccia
ch	Cherty
cz	Chill margin
cg	Coarse-grained
tx	Crystal Tuff
cm	Cumulus
df	Downhole fining
fg	Fine-grained
fz	Flaser bedding
fx	Flow top breccia
gt	Gradational
gn	Granular
gp	Granophyric
gd	Groundmass
lm	Lamination
tl	Lapilli Tuff
lc	Lenticular bedding
lk	Lithic
ma	Massive
mx	Matrix
mg	Mega-crystic

Texture

CODE	Description
mc	Mesocumulate
mm	Migmatitic
md	Muddy
oo	Oolitic
oc	Orthocumulate
pi	Phyllitic
pw	Pillowed
pk	Poikilitic
ps	Poorly sorted
pp	Porphyritic
pb	Porphyroblastic
pc	Porphyroclastic
sd	Sandy
sh	Shaley
si	Silicification
st	Silty
sx	Spinifex
td	Tesxtural destruction
tf	Tuff
tr	Trachytic
uf	Uphole fining
vb	Volcanic breccia
vc	Volcaniclastic
wr	Wallrock
tw	Welded Tuff

Lithology

Rock Group		Rock Type		LOGGING CODE
Description	Code	Description	Code	Code Combo
Ultramafic Extrusive	U	Komatiite	K	UK
		Undifferentiated Ultramafic	U	UU
		Basaltic Komatiite	B	UB
Ultramafic Intrusive	U	Undifferentiated	U	UU
		Pyroxenite	X	UX
		Peridotite	P	UP
		Dunite	D	UD
		Hornblendeite	H	UH
Mafic Extrusive	B	Undifferentiated	V	BV
		Tholeiitic Basalt	T	BT
		High-mag Basalt	M	BM
		Picritic Basalt	P	BP
		Spilitic Basalt	S	BS
Mafic Intrusive	O	Undifferentiated	U	OU
		Gabbro	G	OG
		Troctolite	T	OT
		Norite	N	ON
		Anorthosite	A	OA
		Dolerite	D	OD
		Gabbronorite	B	OB
		Magnetitite	M	OM
Intermediate Extrusive	I	Undifferentiated	U	IU
		Andesite	V	IV
		Trachyte	T	IT
		Trachy-andesite	Y	IY
Intermediate Intrusive	I	Undifferentiated	I	II
		Diorite	D	ID
		Monzonite	M	IM
		Syenite	S	IS
		Porphyry	P	IP
Acid Extrusive	F	Undifferentiated	U	FU
		Rhyolite	R	FR
		Dacite	C	FC
		Rhyodacite	O	FO
Acid Intrusive	G	Undifferentiated	U	GU
		Granite	G	GG
		Monzogranite	M	GM
		Syenogranite	S	GS
		Alkali feldspar granite	A	GA
		Granodiorite	D	GD
		Tonalite	T	GT
		Porphyry	P	GP
		Pegmatite	Z	GZ
		Aplite	L	GL
Lamprophyre / Kimberlites	L	Undifferentiated	U	LU
		Phyric lamprophyre	P	LP
		Lamproite	L	LL
		Kimberlite	K	LK
		Carbonatite	C	LC
Vein material	VN			VN
Massive sulphide	AM			AM
Contamination	XX			XX

Lithology

Rock Group		Rock Type		LOGGING CODE		
Description	Code	Description	Code	Code Combo		
Sediment	S	Undifferentiated	U	SU		
		Mudstone	M	SM		
		Siltstone	T	ST		
		Sandstone	S	SS		
		Interbedded - mud & silt	F	SF		
		Interbedded - sand & silt	N	SN		
		Conglomerate	C	SC		
		Breccia	B	SB		
		Limestone	L	SL		
		Dolomite	D	SD		
		Coal	K	SK		
		<hr/>				
		Chemical Sediments	C	Undifferentiated	U	CU
BIF	I			CI		
Chert	H			CH		
Evaporites	E			CE		
Massive Ironstone	F			CF		
Phosphorites	Z			CZ		
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Metamorphic	M	Slate	L	ML		
Unknown protolith		Phyllite	Y	MY		
		Schist	S	MS		
		Gneiss	G	MG		
		Granulite	N	MN		
		Marble	B	MB		
		Amphibolite	A	MA		
Hornfels		H	MH			
Metamorphic	P	Quartzite	Q	PQ		
Sedimentary protolith		Psammite	M	PM		
		Semipelite	E	PE		
		Pelite	P	PP		
		Slate	L	PL		
		Metacarbonate/marble	B	PB		
		Calcsilicate	X	PX		
		Schist	S	PS		
		Gneiss	G	PG		
		Granulite	N	PN		
		Amphibolite	A	PA		
Hornfels		H	PH			
Metamorphic		R	Metafelsic	F	RF	
Igneous protolith			Metamafic	M	RM	
	Meta-ultramafic		U	RU		
	Schist		S	RS		
	Gneiss		G	RG		
	Granulite		N	RN		
	Amphibolite		A	RA		
Metamorphic	Y	Mylonite	M	YM		
Intensely deformed		Cataclasite	C	YC		
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Hydrothermal	H	Undifferentiated	U	HU		
		Mylonite	Y	HY		
		Skarn	S	HS		
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Mining Codes	W	Mullock/Waste	W	WW		
		Tailings	T	WT		
		cavity	C	WC		
		Stope	S	WS		
		Backfill	B	WB		
		Stockpile	P	WP		
		Lost Core	L	WL		

Mineral		Mineral		Mineral	
CODE	Description	CODE	Description	CODE	Description
ac	Actinolite	fi	Fluorite	ox	Orthopyroxene
ab	Albite	fu	Fuchsite	od	Oxide
am	Amphibole	gl	Galena	os	Oxidised sulphide
ad	Andalusite	ga	Garnet	pn	Pentlandite
ai	Anhydrite	go	Goethite	pg	Phlogopite
ak	Ankerite	au	Gold, native	ph	Phosphate(ic)
ap	Apatite	gs	Gossan	pl	Plagioclase
as	Arsenopyrite	gf	Graphite	py	Pyrite
ao	Asbestos	gu	Grunerite	px	Pyroxene
az	Azurite	gm	Gypsum	po	Pyrrhotite
ba	Barite	hm	Haematite	qt	Quartz
bi	Biotite	ha	Halite	ru	Rutile
bn	Bornite	hb	Hornblende	se	Sericite
ca	Calcite	im	Ilmenite	sn	Sanidine
cs	Carbonaceous	kn	Kaolinite	sc	Scheelite
cb	Carbonate	ks	K-feldspar	sr	Serpentine
sn	Cassiterite	ky	Kyanite	sj	Siderite
cc	Chalcocite	lu	Leucite	sm	Sillimanite
cp	Chalcopyrite	lx	Leucoxene	ag	Silver
cl	Chlorite	li	Limonite	sg	Smectite
cd	Chloritoid	me	Magnesite	sp	Sphalerite
cr	Chromite	mh	Maghemite	sf	Sphene
cy	Clay	mt	Magnetite	so	Staurolite
cx	Clinopyroxene	ml	Malachite	sb	Stibnite
cu	Copper, native	mn	Manganese	su	Sulphide
co	Cordierite	mf	Manganese-Co-Fe	sv	Sulphur
cv	Covellite	mi	Mica	sy	Sylvite
ct	Cuprite	mo	Molybdenite	tc	Talc
dp	Diopside	mz	Monazite	te	Tellurides
do	Dolomite(ic)	mr	Montmorillonite	to	Tourmaline
el	Electrum	ms	Muscovite	tm	Tremolite
en	Enargite	np	Nepheline	tg	Turgite
ep	Epidote	nk	Nickeliferous	wm	White Mica
fd	Feldspar	no	Nontronite	wf	Wolframite
fe	Ferruginous	ol	Olivine	zt	Zeolite
		op	Opalised	zr	Zircon

Alt Style	
CODE	Description
FC	Fracture Controlled
FW	Foot wall (VMS)
FL	Foliation Controlled
HW	Hanging wall (VMS)
HY	Hydrothermal
IN	Inclusion
MT	Metasomatic
PT	Patchy
PV	Pervasive
SR	Selective Replacement
SV	Vein Selvedge

Vein Type		Vein Texture	
CODE	Description	CODE	Description
AN	Anastomosing	BK	Buck
BO	Boudinage	BN	Banded
CO	Colloformed	BX	Breccia
CR	Crustiform	CB	Comb-cockade
EE	En echelon	CF	Colloform
EX	Extensional	CH	Chalcedonic
FD	Folded	FB	Fibrous
GR	Growth	GL	Glassy
LY	Layered	IN	Infill
PL	Planar	IT	Infill tension gashes
PT	Ptygmatic	LM	Laminated
RB	Ribbon	ML	Milky
SA	Saccharoidal	RX	Recrystallised
SZ	Shear	RP	Replacement
SH	Sheeted	SC	Saccaroidal
SG	Sigmoidal	SM	Smokey
SY	Stylolitic	VG	Vuggy
ST	Stringer	VT	Tension gashes
SW	Stockwork	WH	White
VY	Vuggy	ZN	Zoned
ZN	Zoned	DL	Delaminated
CS	Crack seal	PG	Pegmaititic
IN	Infill		

\$ Ore Mineral	
CODE	Description
as	Arsenopyrite
az	Azurite
bn	Bornite
bs	Bismuthinite
cc	Chalcocite
cp	Chalcopyrite
cr	Chromite
cu	Copper, native
cv	Covellite
ct	Cuprite
el	Electrum
en	Enargite
gl	Galena
au	Gold, native
ml	Malachite
mo	Molybdenite
nk	Nickeliferous
op	Oxidised sulphides
pn	Pentlandite
py	Pyrite
po	Pyrrhotite
sc	Scheelite
ag	Silver
sp	Sphalerite
sb	Stibnite
su	Sulphide
te	Tellurides

\$Ore Mineral style	
CODE	Description
BB	Blebs
BN	Banded
DS	Disseminated
LM	Laminated
NW	Interstitial Network
MA	Massive
PT	Patchy
MW	Stockwork
SE	Stringers/Veinlets
SH	Sheets
VH	Vein halo