



Cameco Australia Pty Ltd

## DHLOGGER DRILL CODES

### Lithology Codes

<b>Code</b>	<b>Description</b>		
(G)M	slightly congl mudstone	DI/D	diorite dyke
(G)S	slightly congl sandstone	DIAB	diabase
ALBT	albitite	DIOR	diorite
AMPH	amphibolite	DOLM	dolomite
ANAT	anatexite	DUNT	dunite
ANDA	andesite to dacite	DYKE	dyke
ANDR	andesite diorite	EOH	end of hole
ANDS	andesite	EPVC	epivolcanoclastic
ANLT	andesite lapilli tuff	FAN	fanglomerate
ANPR	andesite porphyry	FAUT	fault
ANRG	anatectic regolith	FL/D	felsic dyke
ANTF	andesite tuff	FLAG	felsic agglomerate
ANXL	andesite crystal lapilli	FLBX	felsic breccia
ANXT	andesite crystal tuff	FLGN	felsic gneiss
AP/D	aplite dyke	FLSG	felsic segregation
APLT	aplite	FLTF	felsic tuff
ARGL	argillite	FLZN	fault zone
ARKS	arkose	FQZT	feldspathic quartzite
AXLT	andesite crystal lapilli tuff	FX/D	feldspar porphyry dyke
BASL	basalt	FXPR	feldspar porphyry
BPDR	brittle overprinted diorite	G)MS	slightly muddy sandstone
BPGD	brittle overprinted granodiorite	G)SM	slightly congl sandy mud
BPGR	brittle overprinted granite	GABR	gabbro
BPMZ	brittle overprinted monzonite	GFCY	graphitic clay
BPTN	brittle overprinted tonalite	GM	conglomeratic mudstone
BSMT	basement	GMS	conglomeratic muddy sandstone
BSTF	basaltic tuff	GNIS	gneiss
BSTL	basaltic lapilli tuff	GOUG	gouge
BX	breccia	GRAN	granite
CAAK	calcarkose	GRAV	gravel
CALC	calcsilicate	GRDT	granodiorite
CASE	casing	GRGN	granite gneiss
CAVI	open cavity	GRWK	greywacke
CBBX	carbonate breccia	GS	conglomeratic sandstone
CHQZ	cherty quartz	IN/D	intermediate dyke
CHRT	chert	INAG	intermediate agglomerate
CLAY	clay	INLT	intermediate lapilli tuff
CLSP	calcsemipelite	INTF	intermediate tuff
CONG	conglomerate	INTR	intrusive
CY	clay	IRFM	iron formation
DACT	dacite	KFGR	alkali feldspar granite
DCLT	dacitic lapilli tuff	LOST	lost core
DCPR	dacitic porphyry	LPTF	lapilli tuff
DCTF	dacitic tuff	MARB	marble
DCXL	dacite crystal lapilli tuff	MDST	mudstone
DCXT	dacite crystal tuff	MF/D	mafic dyke
DEBF	debris flow	MFA	manitou falls a formation
		MFA?	Mfa (transitional)

MFAS	manitou falls a (silty)	QARK	siliceous arkose
MFB	manitou falls b formation	QFGN	quartz-feldspar gneiss
MFBS	manitou falls b (silty)	QFPR	quartz feldspar porphyry
MFC	manitou falls c formation	QMVN	quartz tourmaline vein
MFD	manitou falls d formation	QPEL	quartz rich pelite
MFTF	mafic tuff	QSMP	quartz rich semipelite
MFVL	mafic rock, volcanics	QZAR	quartz arenite
MG	muddy conglomerate	QZBX	quartz breccia
MG/D	monzogabbro dyke	QZDR	quartz diorite
MGPE	moderate gf metapelite	QZIT	quartzite
MGPL	moderate gf metasemipelite	QZMD	quartz monzodiorite
MISS	missing core	QZMZ	quartz monzonite
MONZ	monzonite	QZPL	quartz rich pelite
MS	muddy sandstone	QZPR	quartz porphyry
MSG	muddy sandy conglomerate	QZSG	felsic qz segregations
MTSD	metasediment	QZSP	quartz semipelite
MTWK	meta-wacke	QZSY	quartz syenite
MUD	mud	QZVN	vein quartz
MVAM	Mafic Volcanic: Amygdule-rich	RBQZ	ribbony quartz
MVFW	Mafic Volcanic: Flow layered	RDLT	rhyodacite lapilli tuff
MVFX	Mafic Volcanic: Flow Breccia	RDPR	rhyodacite porphyry
MVMV	Mafic Volcanic: massive	RDTB	rhyodacite tuff breccia
MVPN	Mafic Volcanic: Phenocrysts	RDTF	rhyodacite tuff
MVPW	Mafic Volcanic: Pillowed	RGLT	regolith
MVTF	Mafic Volcanic: Tuffaceous	RHYD	rhyodacite
MXM	massive mineralization	RHYL	rhyolite
MXQZ	massive quartz	RYTF	rhyolite tuff
MY	mylonite	SAND	sand
MYGD	mylonitic granodiorite	SAP	saprolite
MYGR	mylonitic granite	SAPI	saprolite (iron banding)
MYLN	mylonite	SCH	schist
MYMD	mylonitic monzodiorite	SDST	sandstone
MYMZ	mylonitic monzonite	SFZN	silica flooded zone
MYOR	orthomylonite	SG	sandy conglomerate
MYTN	mylonitic tonalite	SGPE	strong gf metapelite
MZ/D	monzonite dyke	SGPL	strong gf metasemipelite
MZDR	monzodiorite	SHER	shear
MZPR	monzonite porphyry	SILT	silt
OB	overburden	SLSD	silty sandstone
ORE	ore intersection	SLST	siltstone
ORGD	orthomylonitic granodiorite	SM	sandy mudstone
OXIF	oxide iron formation	SMPL	semipelite
PEGM	pegmatite	SREG	silicified regolith
PELT	pelite	SYEN	syenite
PERD	peridotite	TONL	tonalite
PLAG	plagioclase	TOVN	tourmaline vein
PPDR	porphyritic diorite	UC	unconformity
PRDR	protomylonitic diorite	UX	uranium intersection
PRGD	protomylonitic granodiorite	UXCA	mineralized cavity
PRGR	protomylonitic granite	UXQZ	mineralized quartzite
PRMD	protomylonitic monzodiorite	UXSD	mineralized sandstone
PRMY	protomylonite	VUG	vug
PRMZ	protomylonitic monzonite	WATR	water
PRQM	protomylonitic qtz monzonite	WGPE	weak gf metapelite
PRTN	protomylonitic tonalite	WGPL	weak gf metasemipelite
PYBS	pyroxene basalt	XENO	xenolith
PYRX	Pyroxenite	XTTF	crystal tuff

## Minerals

<u>Code</u>	<u>Description</u>		
\$P	serpentine	PL	scapolite
AA	andalusite	PO	pyrrhotite
AB	albite	PS	phosphate
AC	actinolite	PX	pyroxene
AD	anhydrite	PY	pyrite
AE	ankerite	QC	quartz carbonate
AF	altered feldspar	QF	quartzofeldspathic
AS	arsenopyrite	QM	quartz tourmaline
AT	apatite	QZ	quartz
AU	gold	RM	rammelsbergite
AX	amphibole	RQ	ribbony quartz
AY	anthophyllite	RU	rutile
BA	barite	S\$	stibnite
BI	biotite	SC	scheelite
BR	bornite	SD	siderite
CB	carbonate	SE	sericite
CC	calcite	SI	sillimanite
CD	cordierite	SN	sphene
CF	coffinite	SP	sphalerite
CH	chert	SR	sparite
CL	chlorite	ST	staurolite
CO	cobaltite	SV	saussurite
CP	chalcopyrite	SX	sulphides
CU	copper	TA	talc
CY	clay	TE	tetrahedrite-tennantite
DI	diopside	TO	tourmaline
DO	dolomite	TR	tremolite
DV	dravite	UR	uraninite (pitchblende)
EP	epidote	UX	uranium minerals
FL	fluorite	VI	vivianite
FU	fuchsite	XX	any mineral (define)
FX	feldspar	YC	yellow clay mineral
GA	garnet	YU	yellow uranium
GE	gersdorffite	YX	yellow uranium
GF	graphite	YY	any mineral
GL	galena	ZE	zeolites
GO	goethite	ZI	zircon
GS	gypsum	ZO	zoisite
HA	halite		
HB	hornblende		
HE	hematite		
HS	specular hematite		
HV	heavy minerals		
IL	illite		
KA	kaolinite		
KF	k-feldspar		
LI	limonite		
M\$	montmorillonite		
M@	malachite		
MA	marcasite		
ME	micrite		
MF	mafic minerals		
MI	mica		
ML	millerite		
MN	manganese minerals		
MO	molybdenite		
MR	microcline		
MT	magnetite		
MU	muscovite		
NI	niccolite		
NX	black mineral		
OU	orange uranium		
OX	oxides (gen.)		
PF	plagioclase		

## Alteration Types

<u>Code</u>	<u>Description</u>		
\$P	serpentine	HQZ	hematized drusy quartz
1ICY	weak pink clay	HS	specular hematite
2GCY	moderate green clay	HV	heavy mineral
2ICY	moderate pink clay	HY	hydrothermal alteration
3ICY	strong pink clay	ICY	pink clay
AB	albite	IL	illite
AC	actinolite	KA	kaolinite
ACY	grey clay	KF	k-feldspar
ACYD	grey diagenetic clay	LI	limonite
AE	ankerite	LID	limonite (diagenetic)
AP	aplite	M\$	montmorillonite
APY	grey pervasive pyritic	MI	mica
AU	gold	MKQ	milky quartz
AX	amphibole	MN	manganese
BCB	brown carbonate	MT	magnetite
BH	bleaching	MU	muscovite
BHD	bleaching (diagenetic)	NCL	black chlorite
BHH	hydrothermal bleach	NCY	black clay
BI	biotite	NOX	black oxides
BP	brittle overprint	NXX	black mineralization
CA	carbonite	PF	plagioclase
CB	carbonate	PO	pyrrhotite
CC	calcite	POT	potassic
CH	chert	PS	phosphate
CL	chlorite	PY	pyrite
CP	chalcopyrite	QA	quartz ankerite vein
CQ	cherty quartz	QAFX	quartz ankerite feldspar vein
CU	copper	QC	quartz carbonate
CVG	cleavage	QFX	quartz feldspar vein
CY	clay	QM	quartz tourmaline
CYD	clay (diagenetic)	QZ	quartz
DQZ	drusy quartz	QZD	quartz dissolution
DV	dravite	RCY	red clay
EOH	end of hole.	RQ	ribbony quartz
EP	epidote	SAUS	saussuritization
FCY	buff clay	SE	sericite
FL	fluorite	SIL	silicification
FRAC	fracture	SILD	silicification (diagenetic)
FU	fuchsite	SMQ	smokey quartz
FX	feldspar	ST	staurolite
GA	garnet	STK	columnar stylolites
GCY	green clay	STM	microstylolites
GF	graphite	SV	saussurite
GG	gouge	TA	talc
GL	galena	TO	tourmaline
GMI	green mica	TR	tremolite
GNXX	green black u mineral	TRQ	translucent quartz
GXX	green unidentified mineral	UCY	blue clay material
HB	hornblende	UX	uranium mineralization
HE	hematite	VI	vivianite
HEB	brick red hematite	WAE	white ankerite
HED	hematite (diagenetic)	WCB	white carbonate
HEM	maroon hematite	WCY	white clay
HER	red hematite	WCYD	white diagenetic clay
HERD	red hematite (diagenetic)	YCY	yellow clay
HM	hematized	YGY	yellow-green phosphate
		YXX	yellow unknown mineral

## Alteration Distribution

<u>Code</u>	<u>Description</u>		
BED	bedding controlled	LM	laminated
BIR	irregular bands	MATR	matrix
BLEB	blebs	MDIS	moderately disseminated
BLOT	irregular spots	MOT	mottled
BN	banded	MTC	mineral control
BO	botryoidal	MX	massive
BOUD	boudinaged	ND	nodules
BP	brittle overprint	PAT	patches
BW	boxwork	PB	porphyroblasts
BX	breccia filling	PDIS	pod hosted disseminated
CJG	conjugate	PERV	pervasive
CLAS	clasts	PHEN	phenocryst
CLOT	clot	POD	pods
COAT	coating	REPL	replacement
CON	contact	RIB	ribbons
CORR	corroded	RQ	ribbony quartz
CUBE	cubic	RTC	rock type control
DISS	disseminated	S/	streaky
DN	dendritic	SBLB	stockwork hosted blebs
DQZ	drusy quartz	SDIS	stockwork hosted diss
DSG	indurate sandy gouge	SEGR	segregated
EN	enveloping	SELV	selvage
EV	envelope	SH	shear
FBLB	fracture hosted bleb	SMX	semi massive
FDIS	fracture hosted diss	SPEC	speck
FK	flake	SPOT	discrete spots
FM	fragmental	SSTR	stockwork hosted stringers
FO	foliated	SSUR	s surfaces
FOL	foliation controlled	STK	columnar stylolites
FRAC	fracture coating	STM	microstylolites
FRCT	fractured	STRG	stringers
FSTR	fracture hosted stringers	STRT	structural control
FT	fault	SUB	subhedral
GG	gouge	SW	stockwork
GM	groundmass	TQ	total quartz
GOUG	gouge	UC	unconformity
HDIS	heavily disseminated	VLB	vein hosted bleb
HX	hydrothermal breccia	VDIS	vein hosted diss
IN	interstitial	VN	vein/stringers
INT	interstitial	VSTR	vein hosted stringers
IR	irregular	VUG	vug controlled
IRR	irregular	WDIS	weakly disseminated
LENS	lenses	WRM	worm rock
LIES	liesegang	WSW	weak stockwork
		XL	crystalline

## Fracture Features

<u>Code</u>	<u>Description</u>		
\$P	serpentine	1YXX	weak yellow unidentified min.
10CY	weak orange clay	2ACY	moderate grey clay
1ACY	weak grey clay	2AXX	moderate grey unknown mineral
1AXX	weak grey unknown mineral	2BCY	moderate brown clay
1BCY	weak brown clay	2BH	moderate bleaching
1BH	weak bleaching	2CB	moderate carbonate
1CB	weak carbonate	2CC	moderate calcite
1CC	weak calcite	2CL	moderate chlorite
1CL	weak chlorite	2CP	moderate chalcopyrite
1CP	weak chalcopyrite	2CPY	moderate calcopyrite
1CPY	weak calcopyrite	2CY	moderate clay
1CY	weak clay	2DQZ	moderate drusy quartz
1DQZ	weak drusy quartz	2DSG	dsg 1 to 2 cm thick
1DSG	dsg up to 1 cm thick	2DV	moderate dravite
1DV	weak dravite	2FCY	moderate buff clay
1FCY	weak buff clay	2GCV	moderate green clay
1GCV	weak green clay	2GF	moderate graphite
1GF	weak graphite	2GG	gouge 1 to 2 cm thick
1GG	gouge up to 1cm thick	2GL	moderate galena
1GL	weak galena	2HE	moderate hematite
1HE	weak hematite	2HEB	moderate brick-red hematite
1HEB	weak brick-red hematite	2HER	moderate red hematite
1HER	weak red hematite	2HQZ	moderate hematite in drusy qz
1HQZ	weak hematite in drusy quartz	2HS	moderate specular hematite
1HS	weak specular hematite	2ICY	moderate pink clay
1ICY	weak pink clay	2LI	moderate limonite
1LI	weak limonite	2MO	moderate molybdenite
1MO	weak molybdenite	2MU	moderate muscovite
1MU	weak muscovite	2NCL	moderate black chlorite
1NCL	weak black chlorite	2NCY	moderate intense black clay
1NCY	weak black clay	2NOX	moderate black oxides
1NOX	weak black oxides	2NPY	moderate black pyrite
1NPY	weak black pyrite	2NXX	moderate black mineralization
1NXX	weak black mineralization	2OCY	moderate orange clay
1OCY	weak orange clay	2OUX	moderate orange uranium mineral
1OUX	weak orange uranium mineral	2PCY	moderate purple clay
1PCY	weak purple clay	2PS	moderate intensity phosphate
1PS	weak intensity phosphate	2PY	moderate pyrite
1PY	weak pyrite	2QZ	middle aged quartz vein
1QZ	oldest quartz vein	2QZD	moderate quartz dissolution
1QZD	weak quartz dissolution	2QZV	middle aged quartz veinlet
1QZV	oldest quartz veinlet	2RCY	moderate red clay
1RCY	weak red clay	2RLI	moderate red limonite
1RLI	weak red limonite	2SD	moderate siderite
1SD	weak siderite	2SGG	sandy gouge 1 to 2 cm thick
1SE	weak sericite	2TA	moderate talc
1SGG	sandy gouge up to 1cm thick	2UCY	moderate blue clay
1TA	weak talc	2UX	moderate uranium minerals
1UCY	weakblue clay	2UXX	unidentified blue coating(mod)
1UX	weak uranium minerals	2WCY	moderate white clay
1UXX	weak unidentified blue coating	2YCY	moderate yellow clay
1VO	weak violet oxide	2YUX	moderate yellow uranium mineral
1WCY	weak white clay	2YX	moderate yellow uranium mineral
1YCY	weak yellow clay	2YXX	mod. Yellow unidentified min.
1YUX	weak yellow uranium mineral	3OUX	strong orange uranium mineral
1YX	weak yellow uranium mineral	3ACY	strong grey clay
		3AXX	strong grey unknown mineral

3BCY	strong brown clay	AE	ankerite
3BH	strong bleaching	AF	altered feldspar
3CB	strong carbonate	AGCY	grey green clay
3CC	strong calcite	AP	aplitic
3CL	strong chlorite	AP/D	aplite dyke
3CP	strong chalcopyrite	AS	arsenopyrite
3CPY	strong calcopyrite	ASE	grey sericite
3CY	strong clay	AT	apatite
3DQZ	strong drusy quartz	AU	gold
3DSG	dsg 2 to 3 cm thick	AX	amphibole
3DV	strong dravite	AXX	grey unidentified mineral
3GCY	strong green clay	AY	anthophyllite
3GF	strong graphite	BA	barite
3GG	gouge 2 to 3 cm thick	BC	broken core
3GL	strong galena	BCY	brown clay
3HE	strong hematite	BED	bedding
3HEB	strong brick-red hematite	BGXX	brown-green uranium mineral
3HER	strong red hematite	BH	bleached
3HQZ	strong hematite in drusy qz	BI	biotite
3HS	strong specular hematite	BP	brittle overprint
3ICY	strong pink clay	BR	bornite
3LI	strong limonite	BS	basalt
3MO	strong molybdenite	BX	breccia
3MU	strong muscovite	BXX	unknown brown mineral
3NCL	strong black chlorite	CB	carbonate
3NCY	strong black clay	CBV	carbonate vein
3NOX	strong black oxides	CC	calcite
3NPY	strong black pyrite	CD	cordierite
3NXX	strong black mineralization	CF	coffinite
3OUX	strong orange uranium mineral	CGG	clay gouge
3PCY	strong purple clay	CH	chert
3PS	strong intensity phosphate	CJ	t
3PY	strong pyrite	CL	chlorite
3QZ	youngest quartz vein	CO	cobaltite
3QZD	strong quartz dissolution	CON	contact
3QZV	youngest quartz veinlet	CP	chalcopyrite
3RCY	strong red clay	CU	copper
3RLI	strong red limonite	CX	cross-cutting fracture
3SD	strong siderite	CY	clay
3SGG	sandy gouge 2 to 3 cm thick	DAE	indurated ankerite
3TA	strong talc	DI	diopside
3UCY	strong blue clay	DK	dyke
3UX	strong uranium minerals	DO	dolomite
3WCY	strong white clay	DQZ	drusy quartz
3YCY	strong yellow clay	DSG	indurated sandy gouge
3YUX	strong yellow uranium mineral	DSK	dip slip slickensides
3YXX	str. Yellow unidentified min.	DV	dravite
4DSG	dsg 3 to 4 cm thick	EOH	end of hole
4GG	gouge 3 to 4 cm thick	EP	epidote
4SGG	sandy gouge 3 to 4 cm thick	FD	folded
5DSG	dsg 4 to 5 cm thick	FL/D	felsic dyke
5GG	gouge 4 to 5 cm thick	FT	fault
5SGG	sandy gouge 4 to 5 cm thick	FU	fuchsite
AA	andalusite	FX	feldspar
AB	albite	FXX	beige acicular crystals
AC	actinolite	GA	garnet
ACY	grey clay	GACY	green gray clay
AD	anhydrite	GCY	green clay

GE	gersdorffite	QC	quartz-carbonate
GF	graphite	QF	quartzofeldspathic
GG	gouge	QM	quartz tourmaline
GL	galena	QZ	quartz
GO	goethite	QZD	quartz dissolution
GS	gypsum	QZV	quartz veinlet
GXX	green unknown mineral	RAE	red ankerite
HA	halite	RCY	red clay
HB	hornblende	RQ	ribbony quartz
HBX	healed breccia	RSP	red sphalerite
HE	hematite	RU	rutile
HEB	brick-red hematite	S\$	stibnite
HEM	maroon hematite	SC	scheelite
HER	red hematite	SD	siderite
HF	healed fractures	SE	sericite
HFT	healed fault	SGG	sandy gouge
HM	hematized	SH	sheared
HS	specular hematite	SI	sillimanite
HV	heavy minerals	SIL	silicification
IAE	pink ankerite	SK	slickensides
IL	illite	SMQ	smokey quartz
IN/D	intermediate dyke	SN	sphene
KA	kaolinite	SP	sphalerite
KF	k-feldspar	SR	sparite
LI	limonite	SSK	strike slip slickensides
M\$	montmorillonite	ST	staurolite
M@	malachite	SV	saussurite
MA	marcasite	SX	sulphides
ME	micrite	TA	talc
MF	mafic minerals	TE	tetrahedrite-tennantite
MF/D	mafic dyke	TO	tourmaline
MGG	muddy gouge	TR	tremolite
MI	mica	UC	unconformity
ML	millerite	UCY	blue clay
MN	manganese minerals	UN	unconsolidated
MO	molybdenite	UQZ	blue quartz
MR	microcline	UR	uraninite (pitchblende)
MT	magnetite	UX	uranium minerals
MU	muscovite	VI	vivianite
MY	mylonite	VN	vien
NCL	black chlorite	VU	vuggy
NCY	black clay	VUG	cavity in rock
NI	niccolite	WAE	white ankerite
NOX	black oxides	WCB	white carbonate
NSX	black sulfide mineral	WCY	white clay
OF	open fractures	WQZ	white quartz
OSK	oblique slip slickensides	XE	xenolith
OX	oxides (gen.)	XX	cherty quartz
PCY	purple clay	YAE	yellow ankerite
PEGM	pegmatite	YBXX	yellow-brown mineral
PF	plagioclase	YCY	yellow clay
PLB	parallel to bedding	YSP	yellow sphalerite
PLF	parallel to foliation	YXX	yellow unidentified mineral
PO	pyrrhotite	YY	orangish greenish quartz
POT	potassic	ZE	zeolites
PS	phosphate	ZI	zircon
PX	pyroxene	ZO	zoisite
PY	pyrite	ZZ	zz type fractures

### Fracture Intensity

<u>Code</u>	<u>Description</u>
<1	less than one
0	zero
BC	broken core
BK	blocky
BP	brittle overprint
BX	breccia
FS	fissle
FT	fault
GG	gouge
HF	healed fractures
HX	hydrothermal breccia
IR	irregular
LC	lost core
MC	missing core
MY	mylonites
OF	open fracture
R0	extremely weak rock
R1	very weak rock
R2	weak rock
R3	weak rock
R4	strong rock
R5	very strong rock
R6	extremely strong rock
S1	very soft clay
S2	soft clay
S3	firm clay
S4	stiff clay
S5	very stiff clay
S6	hard clay
SA	saprolite (weathering)
VG	vuggy

### Color

<u>Code</u>	<u>Description</u>
1	light
2	medium
3	dark
A	grey
B	brown
C	colorless
F	buff
G	green
I	pink
M	maroon
N	black
O	orange
P	purple
R	red
T	tan
U	blue
V	violet
W	white
Y	yellow

### Stratigraphy (paleoweathering)

<u>Code</u>	<u>Description</u>
A	absent
B	bleached
D	diagenetic alteration
F	fresh
G	green zone
H	hematite zone
L	limonitic alteration
N	not preserved
P	partial preservation
R	regolith
T	transition zone
W	white zone
Y	hydrothermal alteration

### Alteration Intensity

<u>Code</u>	<u>Description</u>
1	weak
2	moderate
3	strong

### Friability

<u>Code</u>	<u>Description</u>
1	competent (very hard)
2	moderately friable
3	friable (crumples in hand)
4	locally friable over interval
5	unconsolidated

### Prefix

<u>Code</u>	<u>Description</u>
L	locally
M	moderate
S	strong
T	trace
W	weak

### Suffix

<u>Code</u>	<u>Description</u>
C	cemented

### Grain Size

<u>Code</u>	<u>Description</u>
AH	aphanitic
CY	clay
MD	mud
ST	silt
<1	less than 1 millimetre

## Textures

<u>Code</u>	<u>Description</u>		
AG	augen structured	LM	laminated
AH	aphanitic	LN	lenticular
AL	altered	LT	lithic
AM	amygdaloidal	LX	low angled crossbedded (1-10)
AN	anhedral	MH	mesh structure
AP	aplitic	MK	myrmekitic
BD	bedded (horizontal)	MM	migmatitic
BH	bleached	MP	matrix supported
BK	blocky	MX	massive
BL	bladed	MY	mylonitic
BN	banded	ND	nodular
BO	botryoidal	NP	not preserved
BP	brittle overprint	OV	ovoid
BX	brecciated	P\$	porphyroclastic
C\$	cumulate	PB	porphyroblastic
CA	cataclastic	PE	pebble beds
CM	compact	PG	pegmatitic
CN	concordant	PH	phelbitic
CR	crenulated/folded	PP	partially preserved
CS	clast supported	PR	porphyritic
CT	clastic	PW	pillowed
DE	dense	R1	roundness, very angular
DF	drag folded	R2	roundness, angular
EL	elongated (=prolate)	R3	roundness, subangular
EQ	equigranular	R4	roundness, subrounded
ET	eutaxitic	R5	roundness, rounded
EU	euheral	R6	roundness, very rounded
F\$	fissile	RB	rotated beds
F)	fluidal	RE	remobilizate
FB	flow banded	RQ	ribbony quartz
FE	felsic	S/	streaky
FM	fragmental	S1	sorting, very well
FO	foliated	S2	sorting, well
FR	fractured	S3	sorting, moderate
FS	flaser structure	S4	sorting, poor
FY	flaggy	S5	sorting, very poor
G\$	granoblastic	SB	slabby
GC	graphic	SF	spherulitic
GD	graded bedded	SH	sheared
GG	gouge	SK	slickensides
GN	gneissic	SL	slaty
GP	glomero-porphyritic	SO	scoriaceous
GT	granitic	SS	schistose
GU	granulose	SU	subhedral
GY	greasy	SW	stockwork
HG	hypidiomorphic granular	TB	tabular (=platy)
HO	homogeneous	TF	tuffaceous
HT	heterogeneous	TT	trachytic
IB	interbedded	UF	uniform textured
IM	intermediate	VN	veined
IN	interstitial	VR	variolitic
IQ	inequigranular	VS	vesicular
IT	intraclasts	VU	vuggy
LC	loosely consolidated	VV	varved
LL	lit-par-lit	WB	wavy banded
		WF	weakly foliated
		XB	crossbedded (11 degrees)
		XE	xenolithic
		XL	crystalline

## Rock Type Qualifiers

<u>Code</u>	<u>Description</u>		
AB	albite	GB	gabbroic
AG	augen structured	GC	graphic
AH	aphanitic	GD	graded bedded
AK	arkosic	GF	graphitic
AL	altered	GG	gouge
AM	amygdaloidal	GN	gneissic
AN	anhedral	GP	glomero-porphyrific
AP	aplitic	GR	granitic (comp.)
AR	arenaceous	GT	granitic
AT	altered	GU	granulose
BD	bedded (horizontal)	GY	greasy
BH	bleached	HE	hematite
BI	biotite	HG	hypidiomorphic granular
BK	blocky	HM	hematized
BL	bladed	HO	homogeneous
BN	banded	HR	hornfelsic
BO	botryoidal	HT	heterogeneous
BP	brittle overprint	HX	healed breccia
BR	broken core	IB	interbedded
BS	basaltic	IM	intermediate
BX	brecciated	IN	interstitial
C\$	cumulate	IQ	inequigranular
CA	cataclastic	IR	irregular
CH	cherty	IS	intrusive
CM	compact	IT	intraclasts
CN	concordant	KF	k-feldspar
CR	crenulated/folded	KT	clotty (for dykes)
CS	clast supported	LC	loosely consolidated
CT	clastic	LE	leached
CY	clayey	LG	liesegang
DB	diabasic	LL	lit-par-lit
DC	dacite	LM	laminated
DE	dense	LN	lenticular
DF	drag folded	LS	limy
DK	dyke	LT	lithic
DR	dioritic	LX	low angled crossbedded (1-10)
DS	discordant	M	moderate
EL	elongated (=prolate)	M#	mesocratic
EQ	equigranular	MC	mud clasts
ET	eutaxitic	MF	mafic
EU	euohedral	MH	mesh structure
F\$	fissile	MK	myrmekitic
F)	fluidal	MM	migmatitic
FB	flow banded	MO	mottled
FD	folded	MP	matrix supported
FE	felsic	MR	microcline
FM	fragmental	MT	magnetite
FO	foliated	MX	massive
FR	fractured	MY	mylonitic
FS	flaser structure	ND	nodular
FT	fault	NF	non-fragmental
FW	flow	NN	black
FY	flaggy	NP	not preserved
G\$	granoblastic	OV	ovoid
		P\$	porphyroclastic

PB	porphyroblastic	ZB	silt beds
PC	purple clay		
PE	pebble beds		
PG	pegmatitic		
PH	phelbitic		
PM	polymictic		
PP	partially preserved		
PR	porphyritic		
PT	ptgmatic folds		
PW	pillowed		
PY	pyritic		
QT	quartzitic		
R1	roundness, very angular		
R2	roundness, angular		
R3	roundness, subangular		
R4	roundness, subrounded		
R5	roundness, rounded		
R6	roundness, very rounded		
RB	rotated beds		
RE	remobilizate		
RQ	ribbony quartz		
RY	rhyolitic		
S/	streaky		
S1	sorting, very well		
S2	sorting, well		
S3	sorting, moderate		
S4	sorting, poor		
S5	sorting, very poor		
SA	silicified		
SB	slabby		
SF	spherulitic		
SH	sheared		
SK	slickensides		
SL	slaty		
SO	scoriaceous		
SS	schistose		
SU	subhedral		
SW	stockwork		
SY	syenitic		
SZ	sill		
TB	tabular (=platy)		
TF	tuffaceous		
TN	tonalitic		
TT	trachytic		
UF	uniform textured		
UM	ultramafic		
UX	uranium mineralization		
VL	volcanic		
VN	veined		
VR	variolitic		
VS	vesicular		
VU	vuggy		
VV	varved		
WB	wavy banded		
WF	weakly foliated		
XB	crossbedded (11 degrees)		
XE	xenolithic		
XL	crystalline		