MINERAL NAMES

Ac actinolite
Ad adularia
Aa agate
Ab albite
Aw allanite
Af allophane
Ai almandine
Ai alunite
Am amphibole (general)
Ax anatase
An andalusite
Ae andradite
Ag anglesite

ah anhydrite
ak ankerite
ay anthophyllite
at antigorite
ap apatite
ar aragonite
as arsenophyrite
ao asbestos
au auridium, gold
az azurite

ba barite
bi biotite
bs bismuthnite
bn bornite

ca calcite
cn carbon (as in carbonaceous)
cb carbonate (general,
see also "vein carbonate")
ci carnotite
ct cassiterite
cg cerargyrite
ce cerussite
cj chabazite
ck chalcedony
cc chalcocite
cp chalcopyrite
cs cherty silica
cl chlorite
cd chloritoid
cm chromite
chyrsocolla
cq chrysoprase
cy clay (general)
cz zinozoisite
cx clinopyroxene (general)
cf coffnite
cu copper, native
co cordierite

cv covellite
cr cuprite

di diopside
do dolomite
dr dravite

en enargite
ep epidote
er erythrite

fx feldspar (general)
fe ferric iron oxides,
(goethite, hematite, limonite)
fm ferromagnesian mineral (general)
fl fluorite
fu fuchsite

gh gahnite
ga galena
gn garnet
gi garnierite
gl glauconite
go goethite
gp graphite
gs grossularite
gt grunerite
gy gypsum

hm heavy minerals (general)
hd hedenbergite
he hematite
hb hornblende

im ilmenite

ja jarosite

ka kaolin
kf K-feldspar
ky kyanite

lx leucoxene
le lepidolite
li limonite
lc limonite after carbonate
lp limonite after pyrite
ls limonite after sulphide
lz lizardite

mg magnesite
mh maghemite
mt magnetite

mk malachite
mn manganese oxides (general)
mr marcasite
mi mica (general)
mc microline
ml mineral (general)
mo molybdenite
mz monazite
mu muscovite

ne neotocite
nf nepheline
nt nontronite

ol olivine
op opaline silica
oc orthoclase
ox orthopyroxene

pn pentlandite
pp phlogopite
ph phosphate (general)
pi pitchblende
pl plagioclase
pt platinum
pr prehnite
ps psilomelane
py pyrite
pz pyrolusite
pm pyromorphite
pf pyrophyllite
px pyroxene
po pyrrhotite

qz quartz (see also "silica" and
vein quartz)
qc quartz-carbonate mixture

rc rhodochrosite
rd rhodonite
rb riebeckite
ru rutile

sa sanidine
sc scapolite
sh scheeilte
so scorodite
sr sericite
se serpentine
sd siderite
si silliminite
si silica (general as in silificaiton:
see qz, cs, op)

sm smectite, montomorillonite
ss smithsonite
sp sphalerite
sf sphene
st staurolite
sb stibnite
sx sulphates (general)
su sulphides (general)

tc talc
tt tetrahedrite
tn tennantite
tz topaz
tm tourmaline
tr tremolite
tb torbanite

ur uraninite
ux uranium minerals (general)

vc vein carbonate
vq vein quartz
vs vesurvianite
vl violarite

wl willemite
wo wollastonite
wf wolframite

ze zeolite
zo zoisite

QUALIFIERS

Composition
acd acid
alk alkaline general
amb amphibolitic
and andesitic

shy shaley
sly silty
sty slatey
sny sandy

ear earthy
eqg equigranular
euh euhedral
fgm fragmental or as fragments

sfx spinifex textured
skl skeletal
sph spherulitic, spherules
stg sorting good

apl aplitic
arg argillaceous
ark arkosic
arn arenaceous
ash ash bearing
bas basic
bic bioclastic
bst basaltic
cgt conglomeratic
cln clean (washed)
cly clayey
cmt cemented, cement
cty cherty
dct dacitic
drt diontic
dir doleritic
dlm dolmitic
dty dirty
dun dunitic
fel felsic
fer ferruginous
fsp feldspathic
fst felsitic
gab gabbroic
gph graphitic
grd granodioritic
grn granitic
grp granophyric
hmg high magnesium (basalt)
int intermediate
kom komatiitic
lab labile
leu leucocratic
lim limey as in limestone
lth lithic
maf mafic
mag magnetic
mel melanocratic
mgw magnetic but weakly, lomag
mmc monomictic
mnz monzonitic
mud muddy
olg oligomictic
ooll oolitic, oolites, ooliths
peg pegmatic
pel pelitic
plm polymictic
pot potassic
rhy rhyolitic
ryd ryhodacitic
spl spilitic
srp serptentinitic
syt syenitic
thl tholeiitic
ton tonalitic
ubc ultrabasic
umf ultramafic
vcl volcanolithic
vit vitnc

Texture

acc acicular
adc adcumulate textured
agg agglomeratic
alt alternating
amd amygdaloidal or as amygdules
ams amorphous
ang angular
anh anhedral
aph aphanitic
apy aphyric
bdb bedded, banded
bdc bedded, convoluted
bdg bedded, graded
bdi interbedded
bdk bedded, thick
bdl bedded, laminar
bdm bedded, medium
bdn bedded, thin
bdr bedded, irregular
bds bedded, massive
bdt bedded, turbiditic
bdu bedded/bedding general
bdv bedded, varved
bdw bedded, wavy
bdx bedded, cross
blb blebs
blk blocky
bot botryoidal or as botryoids
brn branchings, anastomosing
cch conchoidal
cls clastic or as clasts
cnv convoluted (but not bedding - see "bdc")
con concretionary, concretions
cry cryptocrystalline
csp clast supported
ctg coatings
dis disseminated/disseminations
dir doleritic
fb fibrous
fis fissile
flb flow banded
flg flaggy
flt flattened
fri friable, loose
fst felsitic
glp glomero-porphyritic
gls glassy
gns gneissic
grb granoblastic
het heterogeneous
hfl hornfelsic
hom homogeneous
hrd hard, hardened
imb imbricated
ing intergranular
inq inequigranular
irr irregular (but not bedding, see "bdr")
ist interstitial
knt knotted
lap lapilli textured, lapilli
len lenticular or as lenticles
mas massive ("but not bedding, see "bds")
mct mesocumlate textured
mig migmatitic
mlk milky
mtx matrix (in or of)
mxs matrix supported
nod nodular or as nodules
ocl ocellar, ocelli
oct orthocumalate textured
pil pillowed
plt peletoidal
por porphyritic or as phenocrysts
ppb porphyroblastic or as porphyroblasts
prd predominant or main
prs porous
ptc perthitic
rad radiating
rdd rounded
rel relict
rex recrystallised
rip rippled, ripples
rod rodded, columnar
sba subangular
sbh subhedral
sbo subordinate
sbr subrounded
stm sorting moderate
stp sorting poor
stl stylotitic
sug sugary
thk thick, large
thn thin, small
trc trachytic
trn transitional
ufx uniform textured
var variolitic
ves vesicular or in vesicles
vgd variegated
vrm vermiform
vug vuggy
wld welded
xen xenolith or xenolithic
xtl crystalline

QUALIFIERS

Regolith
ars arenose (weathering profile term)
blc bleached
bxw boxworked (as in limonite-after-sulphide)
cap cap or capping
ccr calcreted
fcr ferricreted
frs fresh
gly gley
gos gossanous

Structure
aug augen textured or as augen
bou boudinaged
bxx brecciated
cbx crackle brecciated
clv clelaved, cleavage
crn crenulated
cta cataclastic
cnt geological contact
ctt contorted
fau faulted, fault
fld folded, folds

Veining
vcb carbonate veined
vlc vein on lithologic contact
vlt veinlet
vmr massive vein, reef
vqc quartz carbonate veined
vqz quartz veined
vsk stockworked or as stockworks
vst stringers
vsv vein subvertical

Grain Size ("mm" classes only

Genetic
aeo aeolian
agg agglomeratic
all allochthonous
alv alluvial
aqu aqueous
aug authigenic
aut autochthonous
clp collapse (as in collapse breccia)
col colluvial
dep depositional
dig diagenetic

hpn hardpanized, hardpanned
ind indurated
lat lateritic
lch leached
lir lithorelics
lom loamy
lsg liesegang
mot mottled or as mottles
oxd oxidised
pal pallid
ped pedogenic
pis pisolitic, pisolites, pisoliths
plm plasmic
res residual
sap saprolitic
sfl surficial
sit silcreted
spg supergene
whl weathered, highly
wmd weathered, moderately
wsl weathered, slightly
wtd weathered, weathering

Alteration
aaa advanced argillic
aag argillic alteration
aau alteration unspecific
abi biotite alteration
acb carbonate alteration
aci chlorite alteration
acy clay alteration
asi silica alteration
asr sericite alteration
atm tourmaline alteration
abl bleached, bleaching
agz greisenized
ahd hydrothermal
ahp hypogene
ams metasomatic
apc phyllic
apv pervasive
apt potassic
app propylitic
asp spilitic
ase serpentinised

fol foliated, foliation
frc fracture, in fractures
iso isoclinal
jnt jointed, jointing
lin lineated or forming lineation
mas massive
myl mylonitic
phy phyllitic
ptg ptygmatic
sch schistose, schistosity
scl schlieren textured, schlieren
shd sheared
sls slickensided
tec tectonic
unf unfoliated

for sediments)
gzv very fine grained (<0.1mm)
gzf fine grained (0.1-.25mm)
gzm medium grained (.25-0.5mm)
gzc coarse grained (0.5-1.0mm)
gzy very coarse grained (1.0-2.0mm)
gzg granule, gritty (2.0-4.0mm)
gzp pebbly (4-16mm)
gzo cobbly (16-256mm)
gzb bouldery (>256mm)

dyk occurring as a dyke
elv eluvial
epc epiclastic
epg epigenetic
ept epithermal
ext extrusive
flt float
flv fluviatile
flw occurring as a flow
glc glacigenic
igb ignimbritic
inf intraformational
ins in situ
itv intrusive
mmc metamorphic, metamorphosed
mmg greenschist facies
mma amphibolite facies
mmn granulite facies
mml low grade metamorphism
mmm medium grade metamorphism
mmh high grade metamorphism
ocp outcrop
pmy primary
pyc pyrociastic
rew reworked
sec secondary
sed sedimentary
sil occuring as a sill
stm stromatolitic
syg syngenetic
trn transported
tuf tuffaceous
tur turbiditic
vlc volcaniclastic
vol volcanic

ROCK TYPE

Rock type abbreviations always start with a capital. The capitals are chosen to show general categories:

B for base of oxidation categories.
G for general igneous (including unclassified varieties of igneous rock as well as intrusives) but known extrusives.
G was chosen rather than I because of the problems of confusion of I with 1 and l.

M for metamorphic
O for overburden related rock types which includes regolith which is transported but NOT that which is derived in situ.
R for rock names outside other categories, and for situ regolith to basement rocks.
S for sedimentary.
T for tuff (separated from other volcanics to allow a simple tuff terminology).
V for volcanic/volcaniclastic (but note special tuff terminology above).

OXIDATION

Bow base of partial oxidation
Box base of total oxidation

Igneous (non-extrusive)

Gql quartz latite
Gqm quartz monzonite
Grd rhyodacite
Gry rhyolite
Gsp serpentinite

Overburden and Non-basement
Regolith
Oal alluvium
Obt bauxite
Obx regolithic breccia

Uncategorised & in situ Basement
Rbx breccia
Rcb carbonate rock undifferentiated
Rcc cataclasite
Rcp caprock

Gad adamellite
Gal alaskite
Gan andesite
Gao anorthosite
Gap aplite
Gcb carbonatite
Gcp clinopyroxenite
Gdc dacite
Gdl dolerite
Gdn dunite
Gdr diorite
Gft felsite
Gfu felsic rock undifferentiated
Ggb gabbro
Ggd granodiorite
Ggp granophyre
Ggt granite (sensu stricto)
Ggu granitic rock undifferentiated. granitoid
Ghb hornblendite
Ghz harzburgite
Giu intermediate rock unclassified
Gkb kimberlite
Glg leucrogranite
Glm lamprophyre
Glt latite
Gmu mafic rock undifferentiated
Gmz monzonite
Gnr norite
Gop orthopyroxenite
Gpg pegmatite
Gph phonolite
Gpp porphyry
Gpr peridotite
Gpy pyroxenite
Gqd quartz diorite
Gqg quartz gabbro

Gsy syenite
Gta trachyandesite
Gtj trondhjemite
Gto tonalite
Gtr trachyte
Gum ultramafic general
Guu igneous rock undifferentiated

Metamorphic
Mam amphibolite
Mcs calc-silicate
Mes endoskarn
Mfs felsic schist
Mgf granofels
Mgn gneiss
Mgr granulite
Mhf hornfels
Mmb marble
Mmi migmatite
Mms mafic schist
Mmu metamorphic undifferentiated
Moa orthoamphibolite
Mog orthogneiss
Mpa para-amphibolite
Mpg paragneiss
Mph phyllite
Msc schist
Msk sarn
Mst slate
Msu metasediment general
Mum ultramafic schist
Mvu metavolcanic general
Mxs exoskarn

Occ calcrete
Ocl colluvium
Ocp caprock
Ocy clay
Odu duricrust general
Oel eluvium
Ofc ferricrete
Ogo gossan
Ogv gravel
Ogy gypcrete
Ohm humus
Ohp hardpan
Ois ironstone
Olg lag (gravel)
Oln lignite
Olo loam
Olt laterite
Omd mud
Omg magnesite rock (weathering related)
Oou overburden general
Ops podsol
Opt plinthite
Orb rubble
Osa A-horizon soil
Osb B-horizon soil
Osc C-horizon soil
Osk scree
Osl silt, unconsolidated
Osn sand, unconsolidated
Osp saprolite
Osr saprock
Ost silcrete
Osu soil general
Otr travertine

Rcy clay
Rfb fault breccia
Rfz fault rock or zone undifferentiated
Rgs greisen
Rgx gouge
Rku rock general or uncategorised
Rln rock - not logged
Rms massive any mineral
Rmy mylonite
Rnb not rock - backfilled stope
Rnc not rock - contamination
Rnh not rock - hole
Rnp not rock - stope
Rns not rock - no sample return
Rnw not rock - wood
Rph phyllonite
Rsp saprolite
Rsr saprock
Rsz sheared zone or rock undifferentiated
Rtt tectonite
Ruu unidentified rock
Rvc carbonate vein
Rvq quartz vein
Rvu vein general

OXIDATION - Continued

Sediments General
Sbx sedimentary breccia
Sco coal
Sdi diatomite
Sdu sediment general, undifferentiated
Sph phosphorite

Sediments Clastic
Sag argillite
Sak arkose
Sar arenite
Sbo boundstone (carbonate0
Sca calcarenite
Scg conglomerate
Scl calcilutite
Scr calcirudite
Scy claystone
Sdm diamictite
Sgr grit
Sgs grainstone (carbonate)
Sgw greywacke
Smc micrite
Smd mudstone
Sml marl
Spa packstone (carbonate)

Sqo orthoquartzite
Sqt quartzite
Srd rudite
Srs rudstone (carbonate)
Ssa subarkose
Ssg subgreywacke
Ssh shale
Ssl siltstone
Ssn sandstone
Stb turbidite
Sti tillite
Swk wacke

Sediments Chemical
Sct chert
Sdc dolomite
Sex exhalite
Sic iron formation carbonate facies
Sif iron formation general
Sil iron formation silicate facies
Sio iron formation oxide facies
Sis iron formation sulphide facies
Sjs jaspilite, jasper
Slm limestone
Smg magnesite rock (sedimentary)

Tuff
Tan andesitic tuff
Tdc dacitic tuff
Tll lithic tuff
Tlv lithic vitric tuff
Tlx lithic crystal tuff
Try rhyolitic tuff
Tta trachyandesitic tuff
Ttc trachytic tuff
Ttf felsic tuff
Tti intermediate tuff
Ttm mafic tuff
Ttu tuff general
Tum ultramafic tuff
Tvl vitric lithic tuff
Tvv vitric tuff
Tvx vitric crystal tuff
Txl crystal lithic tuff
Txv crystal vitric tuff
Txx crystal tuff

Volcanics and Volcaniclastics other than Tuff
Vag agglomerate, volcanic
Van andesite volcanic
Vbs basalt
Vdc dacitic volcanic
Vft felsitic volcanic
Vhc hyalociastite
Vhm high magnesium basalt
Vig ignimbrite
Vkm komatilite
Vkt keratophyre (volcanic)
Vlh lahar
Vob obsidian
Vpc pyroclastic
Vpp peperite
Vrd rhyodacitic volcanic
Vry rhyolitic volcanic
Vsp spilite (volcanic)
Vta trachyandesitic volcanic
Vtb trachybasaltic volcanic
Vtc trachytic volcanic
Vth tholeiitic volcanic
Vum ultramafic volcanic
Vvc volcaniclastic
Vvf felsic volcanic

Spe pelite Sps psammite			Vvi intermediate volcanic Vvm mafic volcanic Vvu volcanic undifferentiated

Estimates of Abundance and Intensity

Quantitative estimates of abundance as percentages must directly follow the mineral or rock that they refer to , and consist of a two digit number ranging from 01 to 99. Qualitative estimates of intensity must consist of a number from 0 to 5, referring to a scale from absent to intense as listed below, and must directly follow the term referred to. Qualitative estimates should generally be for charaterisitics such as weathering for which a percentage is meaningless.

0	absent	1	trace, rare	2	weak, minor
3	moderate, common	4	strong, abundant	5	intense, very abundant

Colour

Colour codes have been organised to give the same descriptions as those used in the Rock-Colour Chart prepared by the Geological Society of America. The colour chart should be used for any detailed logging, but the codes can also be used for rough descriptions (eg OcyB meaning brown clay). The strongest hue is listed first, the weaker hue (if present) is listed second, and the strenght/shade listed last, eg (BY5 equals moderate yellowish-brown).

Hues:		**Strenght/Shade**	
A	grey	1	very pale
B	brown	2	pale
G	green	3	light
I	pink	4	medium light
L	olive	5	moderate
N	black (noir)	6	dusky
O	orange	7	very dusky
P	purple	8	dark
R	red	9	very dark
u	blue		
W	white		
Y	yellow		