

MINERAL NAMES			
Ac actinolite	ep epidote	nf nepheline	ur uraninite
Ad adularia		nt nontronite	ux uranium minerals (general)
Aa agate	fx feldspar (general)		
Ab albite	fe ferric iron oxides,	ol olivine	vc vein carbonate
Aw allanite	(goethite, hematite, limonite)	op opaline silica	vq vein quartz
Af allophane	fm ferromagnesian mineral (general)	oc orthoclase	vs vesuvianite
Ai almandine	fl fluorite	ox orthopyroxene	vl violarite
Ai alunite	fu fuchsite		
Am amphibole (general)		pn pentlandite	wl willemite
Ax anatase	gh gahnite	pp phlogopite	wo wollastonite
An andalusite	ga galena	ph phosphate (general)	wf wolframite
Ae andradite	gn garnet	pi pitchblende	
ah anhydrite	gi garnierite	pl plagioclase	ze zeolite
ak ankerite	gl glauconite	pt platinum	zo zoisite
ap apatite	go goethite	pr prehnite	
ar aragonite	gp graphite	py pyrite	
as arsenophyrite	gs grossularite	pz pyrolusite	
ao asbestos	gt grunerite	pf pyrophyllite	
au auridium, gold	gy gypsum	px pyroxene	
az azurite		po pyrrhotite	
	hm heavy minerals (general)		
ba barite	he hematite	qz quartz (see also "silica" and	
bi biotite	hb hornblende	vein quartz)	
bs bismuthinite		qc quartz-carbonate mixture	
bn bornite	im ilmenite		
		rd rhodonite	
ca calcite	ja jarosite	rb riebeckite	
cn carbon (as in carbonaceous)		ru rutile	
cb carbonate (general,	ka kaolin		
see also "vein carbonate")	kf K-feldspar	sa sanidine	
ct cassiterite	ky kyanite	sc scapolite	
ce cerussite		sh scheelite	
ck chalcedony	lx leucoxene	sr sericite	
cc chalcocite	le lepidolite	se serpentine	
cp chalcopyrite	li limonite	sd siderite	
cs cherty silica	lc limonite after carbonate	si silliminite	
cl chlorite	lp limonite after pyrite	si silica (general as in silification:	
cd chloritoid	ls limonite after sulphide	see qz, cs, op)	
cm chromite	lz lizardite	sm smectite, montmorillonite	
chrysocolla		ss smithsonite	
cq chrysoprase	mg magnesite	sp sphalerite	
cy clay (general)	mh maghemite	sf sphene	
cz zinozoisite	mt magnetite	st staurolite	
cx clinopyroxene (general)	mk malachite	sb stibnite	
cu copper, native	mn manganese oxides (general)	sx sulphates (general)	
co cordierite	mr marcasite	su sulphides (general)	
cv covellite	mi mica (general)		
cr cuprite	mc microline	tc talc	
	ml mineral (general)	tz topaz	
di diopside	mo molybdenite	tm tourmaline	
do dolomite	mz monazite	tr tremolite	
	mu muscovite		

		QUALIFIERS	
Composition	bdi interbedded	xen xenolith or xenolithic	cbx crackle brecciated
acd acid	bdu bedded/bedding general	xtl crystalline	clv cleaved, cleavage
alk alkaline general	blb blebs		crm crenulated
amb amphibolitic	blk blocky	Regolith	cta cataclastic
and andesitic	brn branchings, anastomosing	ars arenose (weathering profile term)	cnt geological contact
apl aplitic	cch conchoidal	blc bleached	ctt contorted
arg argillaceous	cls clastic or as clasts	bxw boxworked (as in limonite-after-sulphide)	fau faulted, fault
ark arkosic	con concretionary, concretions		fld folded, folds
arn arenaceous	csp clast supported		fol foliated, foliation
ash ash bearing	ctg coatings	cap cap or capping	frc fracture, in fractures
bas basic	dis disseminated/disseminations	ccr calcreted	iso isoclinal
bic bioclastic	dir doleritic	fcr ferricreted	jnt jointed, jointing
bst basaltic	eqg equigranular	frs fresh	lin lineated or forming lineation
cgt conglomeratic	euh euhrdal	gly gley	mas massive
cln clean (washed)	fgm fragmental or as fragments	gos gossanous	myl mylonitic
cly clayey	fb fibrous	hpn hardpanized, hardpanned	phy phyllitic
cmt cemented, cement	fis fissile	ind indurated	ptg pygmatic
cty cherty	flb flow banded	lat lateritic	sch schistose, schistosity
dct dacitic	flt flattened	lch leached	scl schlieren textured, schlieren
dir doleritic	fri friable, loose	lom loamy	shd sheared
dln dolmitic	fst felsitic	mot mottled or as mottles	sls slickensided
dun dunitic	gls glassy	oxd oxidised	tec tectonic
fel felsic	gns gneissic	pal pallid	unf unfoliated
fer ferruginous	grb granoblastic	ped pedogenic	Veining
fsp feldspathic	het heterogeneous	pis pisolitic, pisolites, pisoliths	vcb carbonate veined
fst felsitic	hom homogeneous	res residual	vlc vein on lithologic contact
gab gabbroic	imb imbricated	sap saprolitic	vlt veinlet
gph graphitic	ing intergranular	sfl surficial	vmr massive vein, reef
grd granodioritic	irr irregular (but not bedding, see "bdr")	sit silcreted	vqc quartz carbonate veined
grn granitic		spg supergene	vqz quartz veined
hmg high magnesium (basalt)	ist interstitial	whl weathered, highly	vsk stockworked or as stockwork
int intermediate	knt knotted	wmd weathered, moderately	vst stringers
kom komatiitic	lap lapilli textured, lapilli	wsl weathered, slightly	vsv vein subvertical
leu leucocratic	len lenticular or as lenticles	wtd weathered, weathering	
lim limey as in limestone	mas massive ("but not bedding, see "bds")		Grain Size ("mm" classes only for sediments)
lth lithic		Sample Quality	
maf mafic	mct mesocumulate textured	dr dry sample	gzv very fine grained (<0.1mm)
mag magnetic	mig migmatitic	dp damp sample	gzf fine grained (0.1-.25mm)
mel melanocratic	mlk milky	wt wet sample	gzm medium grained (.25-0.5mm)
mgw magnetic but weakly, lomag	mtx matrix (in or of)		gzc coarse grained (0.5-1.0mm)
ool oolitic, oolites, ooliths	mxx matrix supported	Alteration	gzy very coarse grained (1.0-2.0mm)
peg pegmatic	nod nodular or as nodules	aaa advanced argillic	gzg granule, gritty (2.0-4.0mm)
pel pelitic	oct orthocumulate textured	aag argillic alteration	gzp pebbly (4-16mm)
pot potassic	pil pillowed	aau alteration unspecific	gzo cobbly (16-256mm)
rhy rhyolitic	por porphyritic or as phenocrysts	abi biotite alteration	gzb bouldery (>256mm)
shy shaley	ppb porphyroblastic or as porphyroblasts	acb carbonate alteration	
sly silty		aci chlorite alteration	Genetic
sty slatey	prs porous	acy clay alteration	aeo aeolian
sny sandy	ptc perthitic	asi silica alteration	agg agglomeratic
srp serpentinitic	rad radiating	asr sericite alteration	alv alluvial
syt syenitic	rdd rounded	atm tourmaline alteration	clp collapse (as in collapse breccia)
thl tholeiitic	rel relict	abl bleached, bleaching	col colluvial
ton tonalitic	rex recrystallised	agz greisenized	dep depositional
ubc ultrabasic	rip rippled, ripples	ahd hydrothermal	dig diagenetic
umf ultramafic	rod rodde, columnar	ahp hypogene	dyk occurring as a dyke
vcl volcanolithic	sba subangular	ams metasomatic	elv eluvial
	sbh subhedral	apc phyllic	epc epiclastic
Texture	sbr subrounded	apv pervasive	epg epigenetic
acc acicular	sfx spinifex textured	apt potassic	ept epithermal
adc adcumulate textured	stg sorting good	app propylitic	ext extrusive
agg agglomeratic	stm sorting moderate	asp spilitic	flt float
alt alternating	stp sorting poor	ase serpentinitised	flv fluvialite
amd amygdaloidal or as amygdules	sug sugary		flw occurring as a flow
ams amorphous	trn transitional	Structure	glc glaciogenic
ang angular	ufx uniform textured	aug augen textured or as augen	igb ignimbritic
anh anhrdal	ves vesicular or in vesicles	bou boudinaged	inf intraformational
bdg bedded, graded	vug vuggy	bxx brecciated	ins in situ

QUALIFIERS - continued			
itv intrusive	mml low grade metamorphism	rew reworked	trn transported
mmc metamorphic,	mmm medium grade metamorphism	sec secondary	tuf tuffaceous
metamorphosed	mmh high grade metamorphism	sed sedimentary	tur turbiditic
mmg greenschist facies	ocp outcrop	sil occurring as a sill	vlc volcanoclastic
mma amphibolite facies	pmy primary	stm stromatolitic	vol volcanic
mmn granulite facies	pyc pyroclastic	syg syngenetic	
ROCK TYPE			
Overburden and Non-basement	Rns not rock - no sample return	Gtr trachyte	Sqo orthoquartzite
Regolith	Rnw not rock - wood	Gum ultramafic general	Sqt quartzite
Oal alluvium	Rph phyllonite	Gus ultramafic schist	Srd rudite
Obt bauxite	Rrz redox zone	Guu igneous rock undifferentiated	Srs rudstone (carbonate)
Obx regolithic breccia	Rsp saprolite	Gwb websterite	Ssa subarkose
Occ calcrete	Rsr saprock	Gwh wehrlite	Ssg subgreywacke
Ocl colluvium	Rsz sheared zone or rock undiff		Ssh shale
Ocp caprock	Rtt tectonite	Metamorphic	Ssl siltstone
Ocy clay	Rus upper saprolite	Mam amphibolite	Ssn sandstone
Odu duricrust general	Ruu unidentified rock	Mcs calc-silicate	Stb turbidite
Oel eluvium	Rvc carbonate vein	Mes endoskarn	Sti tillite
Ofc ferricrete	Rvq quartz vein	Mfs felsic schist	Swk wacke
Ogo gossan	Rvu vein general	Mgf granofels	
Ogv gravel		Mgn gneiss	Sediments Chemical
Ogy gypcrete	Igneous (non-extrusive)	Mgr granulite	Sct chert
Ohm humus	Gad adamellite	Mhf hornfels	Sdc dolomite
Ohp hardpan	Gan andesite	Mmb marble	Sex exhalite
Ois ironstone	Gao anorthosite	Mmi migmatite	Sic iron formation carbonate facies
Olg lag (gravel)	Gap aplite	Mms mafic schist	Sif iron formation general
Oln lignite	Gcb carbonatite	Mmu metamorphic undifferentiated	Sil iron formation silicate facies
Olo loam	Gcp clinopyroxenite	Moa orthoamphibolite	Sio iron formation oxide facies
Olt laterite	Gch chromitite	Mog orthogneiss	Sis iron formation sulphide facies
Omd mud	Gdc dacite	Mpa para-amphibolite	Sjs jaspilite, jasper
Omg magnesite rock (weathering)	Gdl dolerite	Mpg paragneiss	Slm limestone
Oou overburden general	Gdn dunite	Mph phyllite	Smg magnesite rock (sedimentary)
Ops podsol	Gdr diorite	Msc schist	
Orb rubble	Gft felsite	Msk skarn	Tuff
Osa A-horizon soil	Gfu felsic rock undifferentiated	Mst slate	Tan andesitic tuff
Osb B-horizon soil	Ggb gabbro	Msu metasediment general	Tdc dacitic tuff
Osc C-horizon soil	Ggd granodiorite	Mum ultramafic schist	Tll lithic tuff
Osk scree	Ggn gabbro-norite	Mvu metavolcanic general	Tlv lithic vitric tuff
Osl silt, unconsolidated	Ggp granophyre	Mxs exoskarn	Tlx lithic crystal tuff
Osn sand, unconsolidated	Ggt granite (sensu stricto)		Try rhyolitic tuff
Osp saprolite	Ggu granitic rock undiff granitoid	Sediments General	Tta trachyandesitic tuff
Osr saprock	Ghb hornblendite	Sbx sedimentary breccia	Ttc trachytic tuff
Ost silcrete	Ghz harzburgite	Sco coal	Ttf felsic tuff
Osu soil general	Giu intermediate rock unclassified	Sdi diatomite	Tti intermediate tuff
	Gkb kimberlite	Sdu sediment general, undiff	Ttm mafic tuff
Uncategorised & in situ Basement	Glg leucrogranite	Sph phosphorite	Ttu tuff general
Rbk bedrock	Glm lamprophyre		Tum ultramafic tuff
Rbx breccia	Glz lherzolite	Sediments Clastic	Tvl vitric lithic tuff
Rcb carbonate rock undifferentiated	Gmu mafic rock undifferentiated	Sag argillite	Tvv vitric tuff
Rcc cataclasite	Gmz monzonite	Sak arkose	Tvx vitric crystal tuff
Rcp caprock	Gnr norite	Sar arenite	Txl crystal lithic tuff
Rcy clay	Gop orthopyroxenite	Sbo boundstone (carbonate)	Txx crystal tuff
Rfb fault breccia	Gpg pegmatite	Sca calcarenite	
Rfz fault rock or zone undifferentiated	Gpp porphyry	Scg conglomerate	
Rgs greisen	Gpr peridotite	Scl calcilutite	
Rgx gouge	Gpy pyroxenite	Scr calcirudite	
Rku rock general or uncategorised	Gqd quartz diorite	Scy claystone	
Rln rock - not logged	Gqg quartz gabbro	Sdm diamictite	
Rls lower saprolite	Gql quartz latite	Sgr grit	
Rms massive any mineral	Gqm quartz monzonite	Sgs grainstone (carbonate)	
Rmy mylonite	Grd rhyodacite	SGW greywacke	
Rnb not rock - backfilled stope	Gry rhyolite	Smc micrite	
Rnc not rock - contamination	Gsp serpentinite	Smd mudstone	
Rnh not rock - hole	Gsy syenite	Sml marl	
Rnp not rock - stope	Gta trachyandesite	Spa packstone (carbonate)	
	Gtj trondhjemite	Spe pelite	
	Gto tonalite	Sps psammite	

ROCK TYPE - Continued

Volcanics and Volcaniclastics	Vhm high magnesium basalt	Vrd rhyodacitic volcanic	Vum ultramafic volcanic
other than Tuff	Vig ignimbrite	Vry rhyolitic volcanic	Vvc volcaniclastic
Vag agglomerate, volcanic	Vkm komatilitite	Vsp spilite (volcanic)	Vvf felsic volcanic
Van andesite volcanic	Vkt keratophyre (volcanic)	Vta trachyandesitic volcanic	Vvi intermediate volcanic
Vbs basalt	Vlh lahar	Vtb trachybasaltic volcanic	Vvm mafic volcanic
Vdc dacitic volcanic	Vob obsidian	Vtc trachytic volcanic	Vvu volcanic undifferentiated
Vft felsitic volcanic	Vpc pyroclastic	Vth tholeiitic 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).			
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	Oxidation	
A grey	1 very pale	Bow base of partial oxidation	
B brown	2 pale	Box base of total oxidation	
G green	3 light	Wox weakly oxidised	
I pink	4 medium light	Mox moderately oxidised	
L olive	5 moderate	Sox strongly oxidised	
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			