

REGOLITH AND SURFACE SEDIMENTS LEGEND

ROOT CODE	COLOUR	COMPOSITION / TYPE	PARTICLE SIZE	TEXTURE	ORIGIN
Z SOILS SURFACE SEDIMENTS	0 WHITE	K CONGLOMERATE RUDITE	For Z Root Code ONLY	L LAMINATED (<10mm)	NOT for use with D Root Code
	1 GREY	Y CLAY (Argillaceous for Z code)	C CLAY (<0.004mm)	B BEDDED (10mm – 30cm)	A ALLUVIUM
	2 GREEN	T TRANSITION Y-Q (>15% matrix)	L LOAM (0.004 – 0.032mm)	T THICKLY BEDDED (>30cm)	C COLLUVIUM
	3 CREAM	R ARENITE Q-Y (<15% matrix)	S SAND (0.032 – 2mm)	W WELL SORTED	W AEOLIAN
	4 KHAKI	A ARKOSIC Q-Y-F	G GRAVEL (>2mm)	U POORLY SORTED	L LACUSTRINE
	5 YELLOW	C CALCAREOUS / CALCRETE	M MIXED	M MASSIVE	G GLACIAL
	6 ORANGE	E EVAPORITE (Halite / Gypsum)	MINERALOGY	X BRECCIATED	Residual Profile
	7 RED	B CARBONACEOUS (Lignite)		G AGGREGATED CEMENTED	M MOTTLED ZONE
	8 BROWN	S SILICEOUS / SILCRETE		O OOLITHS/ PISOLITHS	K LEACHED ZONE
	9 BLACK	F FERRUGINOUS >60% Fe ₂ O ₃		N NODULES	Y CLAY SAPROLITE
	A RED-WHITE OR PINK	H HARDPAN		C PORCELLANEOUS	S SAPROLITE (>20% RELICT TEXTURES & MINERALS)
	B RED-BROWN	L LATERITE <60% Fe ₂ O ₃		A AMORPHOUS	R SAPROCK (<25% OXIDISED)
	C RED-BLACK	G FELSIC precursor		V VOIDED	
	D RED-YELLOW	I INTERMEDIATE precursor		Z FOLIATED	
	E BROWN-WHITE	M MAFIC precursor		F FINE GRAINED (<1mm)	
	F BROWN-YELLOW	U ULTRAMAFIC precursor		Q EQUIGRANULAR (>2mm MEDIUM GRAINED)	
D DURICRUST	A RED-WHITE OR PINK	R Mica +/- Clay +/-Qtz	Y CLAY +/- QUARTZ	P PORPHYRITIC	
	B RED-BROWN	K Carbonaceous +/- Clay+/-Qtz	M CLAY-XH-XG	S SCHIST	
	C RED-BLACK	E SULPHATES +/- Q-Y	Q QUARTZ- CLAY	\$ GOSSAN/ SULPHIDE TEXTURES	
	D RED-YELLOW	U URANIUM MINERALS	S QUARTZ-XH-XG	% PEBBLY	
X OXIDISED	E BROWN-WHITE	B CARBONACEOUS (XH-XG)	X XH-XG-CLAY	J JOINT OXIDISED	
	F BROWN-YELLOW	P SILICA (Calcareous)	F XH-XG-QUARTZ		
	G DARK REDDISH BROWN	I XH-XG (Calcareous)	X XH-XG-CLAY		
	H PALE RED PURPLE	D CALCAREOUS -Q	F XH-XG-QUARTZ		
	J LIGHT BROWN i.e. BUFF, FAWN, BEIGE	B CALCAREOUS (XH-XG)	I XH-XG (Calcareous)		
	K MODERATE YELLOW BROWN	P SILICA (XH-XG)	D CALCAREOUS -Y		
	L MODERATE REDDISH BROWN	H SILICA -Y	B CALCAREOUS (XH-XG)		
		N MANGANESE RICH	P SILICA (Calcareous)		

ROCK LEGEND – SEDIMENTARY ROCKS

ROOT
CODE

COLOUR

SEDIMENTARY
TEXTURES

TYPE

ROCK NAME

DOMINANT
MINERALOGY

0

White

1

Grey

2

Green

3

Cream

4

Khaki

5

Yellow

6

Orange

7

Red

8

Brown

9

Black

A

Red-White or

B

Red-Brown

C

Red-Black

D

Red-Yellow

E

Brown -White

F

Brown-Yellow

G

Pale Red Purple

H

Dark Reddish

J

Light Brown ie

K

Buff, Fawn, Beige

K

Moderate Yellow

L

Moderate Reddish

Brown

L

LAMINAE

E

BEDS
(1-10cm)

R

THICK
BEDS
(>10cm)

M

MASSIVE
NO
BEDDING

U

FINING
UP

W

FINING
DOWN

%

PEBBLY

OTHER
TEXTURES

S

SCHIST

Y

MYLONITE

X

BRECCIA

Z

FOLIATED

O

OOLITIC

J

JOINT
OXIDISED

&

FINE
GRAINED

^

CRENULATED/
FOLDED

S

CHEMICAL
SEDIMENTS

I

INTERBEDDED
Put dominant rock
name first (column
4) and composition
of subordinate
rock (column 5)

E

EPICLASTIC

V

VOLCANICLASTIC

M

METAMORPHIC

C

CARBONATE

\$

SULPHIDE (<50%)

C

PALE CHERT

G

CARBONACEOUS
CHERT

H

CHLORITE RICH

J

JASPER / BIF

K

RUDITES
eg CONGLOMERATE
(>2mm)

R

ARENITE
<15% Matrix
(0.06-2mm)

W

WACKE
>15% Matrix
(0.06-2mm)

A

ARGILLITE
(<0.06mm)

S

BLACK SHALE
(graphitic)

P

AGGLOMERATE
(>64mm)

L

LAPILLI TUFF
(2-64mm)

T

TUFF (ASH)
(<2mm)

K

RUDITES
eg CONGLOMERATE
(>2mm)

R

ARENITE
<15% Matrix
(0.06-2mm)

W

WACKE
>15% Matrix
(0.06-2mm)

A

ARGILLITE
(<0.06mm)

Q

QUARTZITE

M

MARBLE

D

DOLOMITE

B

LIMESTONE

1

Gossan (xh ± sp)

2

xm

3

xm-sp

4

sp-so

5

sp

6

so

7

sc

8

sph

9

sg

D

FELDSPAR
dominant

Q

QUARTZ ± C± lithic

S

QUARTZ ± graphite

G

CARBONACEOUS/
graphitic ± Q

N

MANGANESE
dominant

X

XH ± HG ± Q

H

CHLORITE ± A ± Q

R

SERICITE/ mu ± Q

T

BIOTITE ± Q ± C

L

LITHIC

P

POLYMICT

F

FELSIC Q-F-M

I

INTERMEDIATE
F-C-M ±A ±Q

M

MAFIC A-C-F

U

ULTRAMAFIC
A-C-M ±B

B

CARBONATE
dominant (> 90%)
B±C±Q± lithic

C

Z

B ± graphitic ± Q

QUALIFYING MINERAL ABBREVIATIONS

A	<u>AMPHIBOLES</u>	a	R	<u>SERPENTINE</u>	r
	ACTINOLITE	ac		ANTIGORITE	ra
	ANTHOPHYLLITE	an		CHRYSOTILE	rc
	CUMMINGTONITE	auc		LIZARDITE	rl
	HORNBLENDE	ah			
	TREMOLITE	at	S	<u>SULPHIDES</u>	s
B	<u>CARBONATES</u>	b		ARSENOPYRITE	sa
	ANKERITE	ba		CHALCOPYRITE	sc
	CALCITE	bc		GALENEA	sg
	CARNOTITE	bu		MILLERITE	smi
	DOLOMITE	bd		MOLYBDENITE	sm
	MAGNESITE	bm		PENTLANDITE	se
	MALACHITE	bl		PYRITE	sp
				PYRRHOTITE	so
C	<u>CHLORITES</u>	c		SPHALERITE	sph
				VIOLARITE	sv
E	<u>EPIDOTE</u>	e	T	<u>TALC</u>	t
	CLINOZOISITE	ec			
F	<u>FELDSPAR</u>	f	X	<u>OXIDES</u>	x
	ALBITE	fa		CHROMITE	xc
	MICROCLINE	fm		HEMATITE	xh
	ORTHOCLASE	fo		ILMENITE	xi
	PLAGIOCLASE	fp		LEUCOXENE	xl
				MAGNETITE	xm
G	<u>GARNET</u>	g		MANGANESE OXIDES	xn
	ALMANDINE	ga		RUTILE	xr
	ANDRADITE	gn		URANITITE	xu
H	<u>HYDROXIDES</u>	h	Y	<u>CLAYS</u>	y
	GIBBSITE	hal		KAOLINITE	yk
	GOETHITE	hg		MONTMORILLONITE	ym
	LIMONITE	hl	ZC	<u>CARBON</u>	zc
				GRAPHITE	zcg
I	<u>OTHER SILICATES</u>	i	ZS	<u>SULPHATES</u>	zs
	SPHENE	ls			
	TOURMALINE	it		ALUNITE	zsa
M	<u>MICAS</u>	m		ANHYDRITE	zsh
	BIOTITE	mb		BARITE	zsb
	PHENGITE	mf		GYPSUM	zsg
	GLAUCONITE	mg			
	LEPIDOLITE	ml		JAROSITE	zsj
	PHLOGOPITE	mph			
	SERICITE	mr	ZP	<u>PHOSPHATES</u>	zp
	MUSCOVITE	mu		APATITE	zpa
				MONZONITE	zpm
O	<u>OLIVINE</u>	o	ZH	<u>HALITES</u>	zh
P	<u>PYROXENE</u>	p		FLUORITE	zhf
	AUGITE	pca		HALITE	zhh
	CLINOPYROXENE	pc			
	DIOPSIDE	pcd			
	ORTHOPYROXENE	po			
Q	<u>QUARTZ</u>	q			
	SILICEOUS	sil			