

Litho	
Code	Description
NR	no recovery
CL	clay
CBCL	carbonaceous clay
CLSA	clay and sand
GVCL	gravel-rich clay
SL	silt
CBSL	carbonaceous silt
CLSL	clay and silt
SASL	sand and silt
SASLCL	sands, silt/clay
KSL	Kaolinitic silts/clays
VFSA	Very F grained sand
FNSA	F grained sand
MDSA	M grained sand
CSSA	C grained sand
VCSA	very C grained sand
CBSA	carbonaceous sand
GV	gravel
CYGV	clayey gravel
SAGV	sand and gravel
CASS	calcic sandstone
VFSS	Very Fine Sandstone
FNSS	Fine grained sandstone
MDSS	Medium grained sandstone
CSSS	Coarse grained sandstone
VCSS	Very Coarse grained sandstone
LS	limestone
LSCL	limestone and clay
LSSA	sandy limestone
DOLS	dolomitic limestone
CYDOLS	clayey dolomitic limestone
DO	dolomite
GY	gypsum
SZ	silcrete

Litho	
Code	Description
XB-F	felsic basement
XB-M	mafic basement
XB-V	volcaniclastics
QTZV	quartz vein
CAL	Calcrete
CGL	Conglomerate
SLS	Siltstone
SPR	Saprolite
SHL	Shale
BLT	Basalt
SHST	Schist
GNS	Gneiss
GRT	Granite
AMPH	Amphibolite
FER	Ferricrete
SPRK	Saprock
DFL	Debris Flow
MDST	Mudstone
MRKS	Metaarkose
MPLT	Metapelite
GRW	Graywacke
QTZT	quartzite

Granulometry		
Code	Description	Grain Size (mm)
0	Chemical rocks/crystalline basement	
1	Clay	
2	Silt	<1/16
3	Very fine sand	1/16-1/8
4	Fine sand	1/8-1/4
5	Medium sand	1/4-1/2
6	Coarse sand	1/2-1.0
7	Very coarse sand	1.0-2.0
8	Granule	2.0-4.0
9	Small pebbles	4.0-8.0
10	Medium pebble	8.0-16.0
11	Large pebbles	16.0-32.0
12	Very Large pebbles	32.0-64.0
13	Cobbles	64.0-128.0
14	Boulders	>128.0

Roundness	
Code	Description
NS	no sample
NA	grain size <63 microns
VA	very angular
A	angular
S	subangular
D	subrounded
R	rounded
WR	well rounded

Color code	
Code	Description
-999	unknown
5R8/2	grayish pink
5R7/4	moderate pink
5R6/2	pale red
5R6/6	light red
5R5/4	moderate red
5R4/2	grayish red
5R4/6	moderate red
5R3/4	dusky red
5R2/2	blackish red
5R2/6	very dark red
10R8/2	grayish orange pink
10R7/4	moderate orange pink
10R6/2	pale red
10R6/6	moderate reddish orange
10R5/4	pale reddish brown
10R4/2	grayish red
10R4/6	moderate reddish brown
10R3/4	dark reddish brown
10R2/2	very dusky red
5YR8/4	moderate orange pink
5YR7/2	grayish orange pink
5YR6/4	light brown
5YR5/2	pale brown
5YR5/6	light brown
5YR4/4	moderate brown
5YR3/2	grayish brown
5YR3/4	moderate brown
5YR2/2	dusky brown
10YR8/2	very pale orange
10YR8/6	pale yellowish orange
10YR7/4	grayish orange pink
10YR6/2	pale yellowish brown
10YR6/6	dark yellowish orange

Code	Description				
10YR5/4	moderate yellowish brown	5BG7/2	pale blue green	5GY8/1	light greenish gray
10YR4/2	dark yellowish brown	5BG6/6	light blue green	5GY6/1	greenish gray
10YR2/2	dusky yellowish brown	5BG5/2	green	5GY4/1	dark greenish gray
5Y8/4	grayish yellow	5BG4/6	green	5GY2/1	greenish black
5Y7/2	yellowish grey	5BG3/2	dusky blue green	5G8/1	light greenish gray
5Y7/6	moderate yellowish brown	5B8/2	very pale blue	5G6/1	greenish gray
5Y6/4	dusky yellow	5B7/6	light blue	5G4/1	dark greenish gray
5Y5/2	light olive gray	5B6/2	pale blue	5G2/1	greenish black
5Y5/6	light olive brown	5B5/6	moderate blue	5B9/1	bluish white
5Y4/4	moderate olive brown	5PB7/2	pale blue	5B7/1	light bluish white
5Y3/2	olive gray	5PB5/2	grayish blue	5B5/1	medium bluish gray
10Y8/2	pale greenish yellow	5PB3/2	dusky blue		
10Y7/4	moderate greenish yellow	5P6/2	pale purple		
10Y6/2	pale olive	5P4/2	grayish purple		
10Y6/6	dark greenish yellow	5P2/2	very dusky purple		
10Y5/4	light olive	5RP8/2	pale pink		
10Y4/2	grayish olive	5RP6/2	pale red purple		
5GY7/2	grayish yellow green	5RP4/2	grayish red purple		
5GY7/4	moderate yellow green	5RP2/2	purple		
5GY5/2	dusky yellow green	N9	white		
5GY3/2	grayish olive green	N8	very light gray		
10GY7/2	pale yellowish green	N7	light gray		
10GY6/4	moderate yellowish green	N6	medium light gray		
10GY5/2	grayish green	N5	medium gray		
10GY4/4	dark yellowish green	N4	medium dark gray		
10GY3/2	dusky yellowish green	N3	dark gray		
5G7/2	pale greenish yellow	N2	grayish black		
5G7/4	light green	N1	black		
5G6/6	brilliant green	5YR8/1	pinkish gray		
5G5/2	grayish green	5YR6/1	gray		
5G5/6	moderate green	5YR4/1	brownish gray		
5G3/2	dusky green	5YR2/1	brownish black		
10G8/2	very pale green	5Y8/1	yellowish gray		
10G6/2	pale green	5Y6/1	light olive gray		
10G4/2	grayish green	5Y4/1	olive gray		
		5Y2/1	olive black		

Redox code	
Code	Description
-999	no recovery
RDB	reduced black
RDG	reduced grey
RDIG	reduced light grey
ROGBe	beige
RDGn	reduced green
RDIGn	reduced light green
ROGn	with red patches
ROBn	with green patches
OXY	oxidised yellow
OXR	oxidised red
OXO	oxidised ochre
OXBr	oxidised brown
NW	beige-white
NBe	bleached/neutral beige
ROGY	light beige yellow

### Fe-Oxyhydroxides

Code	Description
0	no oxyhydroxydes
1	few oxyhydroxydes (yellow)
2	oxyhydroxydes (ochre-rusty colour)
3	oxyhydroxydes (red-purple)

### Carbonate

Code	Description
0	not visible - test HCl negative
1	visible with hand lense or binocular - test HCl positive
2	visible without hand lense - test HCl positive
3	abundant - test HCl positive

### Sulphide

Code	Description
0	not visible - No sulphide
1	visible with hand lense or binocular - Little sulphide
2	visible without hand lense - Sulphides
3	abundant - Lots of sulphides

### Organic Matter

Code	Description
0	Not visible - No OM
1	With hand lense or binocular - Little OM
2	Without lense - OM
3	Abundant - Lots of OM

### Argilization

Code	Description
0	no argilization
1	minor argilization
2	moderate argilization
3	strong argilization
4	completely argilized

### Chloritization

Code	Description
0	no chloritisation
1	lense or binocular
2	hand lense
3	strong chloritisation - abundant
4	completely chloritised

### Sericitization

Code	Description
0	no bleaching
1	minor bleaching
2	moderate bleaching
3	strong bleaching
4	completely bleached

### Silification

Code	Description
0	no silicification
1	minor silicification
2	moderate silicification
3	strongly silicified
4	completely silicified

**Hematization**

Code	Description
0	no hematization
1	minor hematization
2	moderate hematization
3	strongly hematized
4	completely hematized

**Limonitization**

Code	Description
0	no limonitization
1	minor limonitization
2	moderate limonitization
3	strongly limonitized
4	completely limonitized

**Other alteration**

Code	Description
SERI	SERICITIC, PHYLIC. A very abundant and widespread alteration with a characteristic mineral assemblage.
SERP	SERPENTINIZATION. The process of hydrothermal alteration by which magnesium-rich silicate minerals are replaced by serpentine.
SILI	SILICIFICATION. The introduction of, or replacement by, SILICA, generally resulting in the formation of fibrous or crystalline silica.
SKRN	SKARN, SILICATION. Silication (silicate alteration) is also known as pyrometamorphic, contact metamorphic, or skarn.
TALC	TALC forms as an alteration product of magnesium silicates such as olivine, pyroxenes and amphiboles.
TURM	TOURMALINIZATION. Introduction of, or replacement by, TOURMALINE as pervasive, selectively pervasive, or localized.
ZEOL	ZEOLITIC. Introduction of, alteration to, or replacement by, a mineral or minerals which have ZEOLITES.

**Other alteration**

Code	Description
ALBI	Introduction of, or replacement by, ALBITE, usually replacing a more calcic plagioclase.
ALUN	Introduction of, or replacement by, ALUNITE. This alteration is caused by extreme hydrolytic leaching of wallrocks in the presence of sulphate.
ARGI	ARGILLIC. Intermediate argillic alteration is the replacement or alteration of feldspars to form predominantly clay minerals.
BIOT	Introduction of, or replacement by, BIOTITE.
CARB	Introduction of, or replacement by, CARBONATES.
CLOR	The replacement by, conversion into, or introduction of CHLORITE.
DEUT	DEUTERIC. A process involving reactions between primary magmatic minerals and the water-rich solutions that separate from the same body of magma.
EPID	The hydrothermal introduction of EPIDOTE into rocks or the alteration of rocks in which plagioclase feldspar is albitized, freeing the anorthite molecule.
FENT	FENITIC. Widespread alkali metasomatism of quartzofeldspathic country rocks in the environs of carbonatite complexes and/or alkalic igneous rocks.
GRSN	GREISEN. A type of alteration whose minerals are enriched in fluorine, boron, and the alkali metals (Na, K, and Li).
HEMT	HEMATITE varieties may be granular, specular, or more rarely, earthy.
LECH	LEACHING. The separation, selective removal, or dissolving-out of soluble constituents from a rock, soil, or orebody by the natural action of percolating fluids.
OXID	OXIDATION. A process whereby an area is modified by surface waters, and/or reaction with oxygen (e.g., sulphides altered to oxides and carbonates).
KSPA	POTASSIUM SILICATE, POTASSIC. Hydrothermal alteration resulting from potassium metasomatism, commonly accompanied in calcalkaline rocks by chlorite.
PROP	PROPYLITIC. The result of low pressure-temperature alteration. The propylitic assemblage consists of EPIDOTE, CHLORITE, Zoisite, CLINOZOISITE, and QUARTZ.
PYRT	PYRITE. Introduction of, or replacement by, PYRITE.
QZCA	QUARTZ CARBONATE. LISTWANITE. A mineralogic assemblage that results from the carbonatization of serpentinized ultramafic rocks.
RDGZ	RODINGITIZATION. A metasomatic alteration of a protolith during serpentinization.

**Sedim**

<b>Code</b>	<b>Description</b>
-999	no recovery
UCBD	Undifferentiate Crossbedding
MSV	Massive
HLa	Horizontal lamination
LPLa	Low angle planar lamination
HPLa	High Angle planar Lamination
TCBD	Trough Crossbedding
WBD	Wavy Bedding
FBD	Flaser Bedding
LBD	Lenticular Bedding
DCr	Dessication Cracks
MCr	Mud Cracks
LCst	Load Cast
PCL	Pebbles Clay
GFU	Graded Fining Upwards
GCU	Graded Coarsening Upwards
GI	Glauconite
RIP	Current ripple
CL	Coal

**Structure type**

<b>Code</b>	<b>Structure Description</b>
fault	Fault, fault zone
frac	Fracture, general
frac	Conjugate set of fractures
brec	Fracture with brecciation
slick	Fracture with slickensides
shear	Shear fracture
s0	Bedding
s1	Schistosity 1
vein	Vein
joint	Joint