

**LITHOLOGY** (*Italics underlined* = Reg Codes)

|             |   |
|-------------|---|
| <u>NS</u>   | No Site Found/No Sample taken - Refers to collection of historical drill chips              |
| <u>PC</u>   | <i>Palaeochannel</i>  |
| <u>UKN</u>  | <i>Unknown</i>  |
| <u>AL</u>   | <i>Alluvium</i>   |
| <u>CL</u>   | <i>Clay</i>   |
| <u>L</u>    | <i>Laterite</i>   |
| <u>OCC</u>  | <i>Overburden Chemical Calcrete</i>   |
| <u>OCE</u>  | <i>Overburden Chemical Evaporite</i>  |
| <u>OCH</u>  | <i>Overburden Chemical Hardpan</i>  |
| <u>OCS</u>  | <i>Overburden Chemical Silcrete</i>   |
| <u>OFC</u>  | <i>Overburden Ferricrete</i>  |
| <u>OLR</u>  | <i>Duricrust - Undiff (Previously: Lateritic Residuum)</i>                                  |
| <u>OLRR</u> | <i>Duricrust in Residual Profile</i>  |
| <u>OLRT</u> | <i>Duricrust in Transported Profile</i>   |
| <u>OLT</u>  | <i>Overburden Laterite Gravel</i>   |
| <u>OR</u>   | <i>Overburden Residual</i>  |
| <u>ORE</u>  | <i>Overburden Residual Eluvium</i>  |
| <u>ORL</u>  | <i>Overburden Residual Lateritic Gravels</i>  |
| <u>OS</u>   | <i>Overburden Soil (Undifferentiated)</i>   |
| <u>OSC</u>  | <i>Overburden Soil (Pedogenic Carbonate)</i>  |
| <u>OSR</u>  | <i>Overburden Soil (Residual)</i>   |
| <u>OST</u>  | <i>Overburden Soil (Transported)</i>  |
| <u>OT</u>   | <i>Overburden Transported (Undifferentiated)</i>  |
| <u>OTA</u>  | <i>Overburden Transported Alluvium</i>  |
| <u>OTAC</u> | <i>Overburden Transported Alluvium - Clay-rich</i>  |
| <u>OTAF</u> | <i>Overburden Transported Alluvium - Ferruginous</i>  |
| <u>OTAG</u> | <i>Overburden Transported Alluvium - Gravel (+/-pisolites)</i>                              |
| <u>OTAL</u> | <i>Overburden Transported Alluvium - Lignite</i>  |
| <u>OTAS</u> | <i>Overburden Transported Alluvium - Sand</i>   |
| <u>OTC</u>  | <i>Overburden Transported Colluvium</i>   |
| <u>OTCF</u> | <i>Overburden Transported Palaeochannel Clay - Ferruginous</i>                              |
| <u>OTCK</u> | <i>Overburden Transported Palaeochannel Clay - Kaolinitic (pallid zone; non plastic)</i>    |
| <u>OTCL</u> | <i>Overburden Transported Colluvium (Ferruginous lateritic)</i>                             |
| <u>OTCM</u> | <i>Overburden Transported Palaeochannel Clay - Plastic; mottled +/-pisolites</i>            |
| <u>OTCP</u> | <i>Overburden Transported Pisolitic Clay</i>  |
| <u>OTFG</u> | <i>Overburden Transported Ferruginous Gravels</i>   |
| <u>OTL</u>  | <i>Overburden Transported Lateritic Gravels</i>   |
| <u>OTPC</u> | <i>Overburden Transported Pisolitic Gravel - Consolidated (looks like laterite hardcap)</i> |
| <u>OTSW</u> | <i>Overburden Transported Sheetwash Plain</i>   |
| <u>OTW</u>  | <i>Overburden Transported Aeolian Material</i>  |
| <u>RDX</u>  | <i>REDOX Zone</i>   |
| <u>LP</u>   | <i>Pedolith - Pallid</i>  |
| <u>LF</u>   | <i>Pedolith - Lateritic Ferricrete</i>  |
| <u>LGU</u>  | <i>Pedolith - Lateritic Gravels (Unconsolidated)</i>  |
| <u>LGV</u>  | <i>Pedolith - Lateritic Gravel</i>  |
| <u>CLM</u>  | <i>Pedolith - Mottled (Undiff)</i>  |
| <u>CLMR</u> | <i>Pedolith - Mottled in Residual profile</i>   |
| <u>CLMT</u> | <i>Pedolith - Mottled in Transported profile</i>  |
| <u>LS</u>   | <i>Saprolith - Saprolite (Undifferentiated)</i>   |
| <u>LM</u>   | <i>Pedolith - Mottled</i>   |

|            |  |
|------------|--|
| <u>LSC</u> | <i>Saprolith - Upper Saprolite Clay (primary fabric destroyed; goethite+haematite clays)</i>         |
| <u>LSL</u> | <i>Saprolith - Lower Saprolite (primary fabric preserved; clay &gt;20%)</i>                          |
| <u>LSP</u> | <i>Saprolith - Oxidised Lower Saprolite (primary fabric preserved; clay &gt;20%)</i>                 |
| <u>LSR</u> | <i>Saprolith - Saprock (fresh rock fragments; clays&lt;20%)</i>                                      |
| <u>LSU</u> | <i>Saprolith - Upper Saprolite Clay (primary fabric destroyed; leached kaolinite+goethite clays)</i> |
| S          | Sedimentary Rocks (Undifferentiated)   |
| SA         | Arenite (<20% matrix)  |
| SAF        | Arenite - Feldspathic (<90% Quartz-%Feldspar > %Lithics)   |
| SAI        | Arenite - Intermediate (hornblende-rich; <20% fine-grained matrix)                                   |
| SAL        | Arenite - Lithic (<90% Quartz-%Lithics > %Feldspar)  |
| SAQ        | Arenite - Quartz (>90% Quartz)   |
| SASH       | Sandstone & Shale - Interbedded  |
| SASL       | Sandstone & Siltstone - Interbedded  |
| SC         | Conglomerate (Undifferentiated)  |
| SCCT       | Conglomerate - Chert-rich clasts   |
| SCF        | Conglomerate - Felsic (igneous and/or volcanic clasts)   |
| SCI        | Conglomerate - Intermediate (igneous and/or volcanic clasts)   |
| SCM        | Conglomerate - Ultramafic and Mafic (igneous and/or volcanic clasts)                                 |
| SCP        | Conglomerate - Polymict (igneous and/or volcanic clasts)   |
| SCT        | Sedimentary Chert  |
| SG         | Grit (Undifferentiated)  |
| SGF        | Grit - Feldspathic (<90% Quartz-%Feldspar > %Lithics)  |
| SGI        | Grit - Intermediate (hornblende-rich; <20% fine-grained matrix)                                      |
| SGL        | Grit - Lithic (<90% Quartz-%Lithics > %Feldspar)   |
| SGP        | Grit - Polymict  |
| SGQ        | Grit - Quartz (>90% Quartz)  |
| SHCC       | Shale - Carbonaceous   |
| SHL        | Shale (Undifferentiated)   |
| SIF        | Banded Iron Formation  |
| SMD        | Mudstone   |
| SPEP       | Peperite   |
| SSL        | Siltstone (Undifferentiated)   |
| SSLC       | Siltstone - Carbonaceous   |
| SSLH       | Siltstone & Shale - Interbedded  |
| SSP        | Spongolite or Spicularite  |
| SST        | Sandstone (<20% matrix)  |
| SSTF       | Sandstone - Feldspathic  |
| SSTL       | Sandstone - Lithic   |
| SSTQ       | Sandstone - Quartz   |
| SW         | Wacke (Undifferentiated)   |
| SWF        | Wacke - Feldspathic (<90% Quartz-%Feldspar > %Lithics)   |
| SWI        | Wacke - Intermediate (hornblende-rich; <20-50% fine-grained matrix)                                  |
| SWL        | Wacke - Lithic (<90% Quartz-%Lithics > %Feldspar)  |
| SWQ        | Wacke - Quartz (>90% Quartz)   |
| SX         | Sedimentary Breccia (Undifferentiated)   |
| SXF        | Sedimentary Breccia - Felsic   |
| SXI        | Sedimentary Breccia - Intermediate   |
| SXM        | Sedimentary Breccia - Mafic  |
| SXP        | Sedimentary Breccia - Polymict   |
| SD         | Dolomite   |

|      |   |
|------|---|
| SDT  | Diamictite/Tillite  |
| SE   | Evaporite (Undifferentiated)  |
| SL   | Limestone   |
| SV   | Volcaniclastic (Undifferentiated)                                       |
| SVA  | Volcaniclastic Arenite (<20% Matrix)                                    |
| SVAF | Volcaniclastic Arenite - Feldspathic (<90% Quartz-%Feldspar > %Lithics) |
| SVAL | Volcaniclastic Arenite - Lithic (<90% Quartz-%Lithics > %Feldspar)      |
| SVAQ | Volcaniclastic Arenite - Quartz (>90% Quartz)                           |
| SVHL | Volcanic Shale  |
| SVW  | Volcaniclastic Wacke (Undifferentiated)                                 |
| SVWF | Volcaniclastic Wacke - Feldspathic (<90% Quartz-%Feldspar > %Lithics)   |
| SVWL | Volcaniclastic Wacke - Lithic (<90% Quartz-%Lithics > %Feldspar)        |
| SVWQ | Volcaniclastic Wacke - Quartz (>90% Quartz)                             |
| SVX  | Volcanic Breccia  |
| M    | Mafic Rocks (Undifferentiated)  |
| MAB  | Alkaline Mafic Volcanics  |
| MB   | Basalt  |
| MBC  | Ponded Basalt -coarse grained part of flow                              |
| MBP  | Basalt - Porphyritic  |
| MBW  | Basalt - Pillowed   |
| MBX  | Basaltic Autoclastic Rock (Undifferentiated)                            |
| MBY  | Basaltic Pyroclastic Rock (Undifferentiated)                            |
| MD   | Dolerite  |
| MDL  | Dolerite - Leucocratic  |
| MDP  | Dolerite - Porphyritic  |
| MDQ  | Dolerite - Quartz-bearing   |
| MG   | Gabbro  |
| MGL  | Gabbro - Leucocratic  |
| MGM  | Gabbro - Melanocratic   |
| MGN  | Gabbro-norite   |
| MGP  | Gabbro - Porphyritic  |
| MGQ  | Gabbro - Quartz-bearing   |
| MLP  | Lamprophyre   |
| MMB  | Basalt - High-Magnesian (Variolitic and/or Pyroxene Spinifex Texture)   |
| MMD  | Dolerite - High-Magnesian (Variolitic and/or Pyroxene Spinifex Texture) |
| MN   | Norite  |
| MTB  | Basalt - Tholeiitic   |
| MTBM | Basalt - Magnesian Tholeiitic   |
| MV   | Basalt - Sub-alkaline   |
| IA   | Andesite (Undifferentiated)   |
| IAP  | Andesite - Porphyritic (plagioclase phyric)                             |
| IL   | Latite  |
| IT   | Trachyte  |
| IV   | Intermediate Volcanic Rock (Undifferentiated)                           |
| IVC  | Intermediate Tuff - crystal lithic                                      |
| IVI  | Intermediate Ignimbrite   |
| IVT  | Intermediate Tuff - ash/lapilli   |
| IVY  | Intermediate Pyroclastic Rocks (Undifferentiated)                       |
| F    | Felsic Rocks (Undifferentiated)   |
| FD   | Dacite  |

|      |   |
|------|---|
| FR   | Rhyolite                                    |
| FRA  | Alkali Rhyolite                             |
| FRD  | Rhyodacite                                  |
| FTA  | Felsic Tuff - ash/lapilli                   |
| FTC  | Felsic Tuff - crystal lithic                |
| FTI  | Felsic Ignimbrite                           |
| FV   | Felsic Volcanic Rocks (Undifferentiated)    |
| FVX  | Felsic Autoclastic Rocks (Undifferentiated) |
| FVY  | Felsic Pyroclastic Rocks (Undifferentiated) |
| G    | Intrusive Rocks (Undifferentiated)          |
| GA   | Alkali Granite                              |
| GD   | Diorite                                     |
| GDI  | Granodiorite                                |
| GDIQ | Quartz Diorite                              |
| GMD  | Monzodiorite                                |
| GMG  | Monzogranite                                |
| GMO  | Monzonite                                   |
| GMOQ | Quartz Monzonite/Adamellite                 |
| GOFE | Ironstone                                   |
| GOSS | Gossan                                      |
| GP   | Pegmatite                                   |
| GR   | Granite                                     |
| GRA  | Aplite                                      |
| GSY  | Syenite                                     |
| GTO  | Tonalite                                    |
| PF   | Porphyry - Feldspar                         |
| PFB  | Porphyry - Feldspar Biotite                 |
| PFBH | Porphyry - Feldspar Biotite Hornblende      |
| PFC  | Porphyry - Feldspar Chlorite                |
| PFH  | Porphyry - Feldspar Hornblende              |
| PFQ  | Porphyry - Feldspar Quartz                  |
| PFQB | Porphyry - Feldspar Quartz Biotite          |
| PFQH | Porphyry - Feldspar Quartz Hornblende       |
| PQ   | Porphyry - Quartz                           |
| U    | Ultramafic Rocks (Undifferentiated)         |
| UAC  | Ultramafic - Amphibole-Carbonate            |
| UAH  | Ultramafic - Amphibole-Chlorite             |
| UCS  | Ultramafic - Carbonate-Silica               |
| UD   | Dunite                                      |
| UHC  | Ultramafic - Chlorite-Carbonate             |
| UK   | Komatiite                                   |
| UPD  | Peridotite                                  |
| UPL  | Picrite                                     |
| UPX  | Pyroxenite                                  |
| US   | Ultramafic - Serpentine-Chlorite            |
| UTA  | Ultramafic - Talc-Amphibole                 |
| UTAH | Ultramafic - Talc-Amphibole-Chlorite        |
| UTC  | Ultramafic - Talc-Carbonate                 |
| UTH  | Ultramafic - Talc-Chlorite                  |
| UTHC | Ultramafic - Talc-Chlorite-Carbonate        |

|       |  |
|-------|--|
| HGF   | Gneiss - Felsic  |
| HGN   | Gneiss (Unknown Protolith)   |
| HGR   | Granulite (Unknown Protolith)  |
| HHF   | Hornfels (Unknown Protolith)   |
| HM    | Amphibolite - Mafic (Undifferentiated)   |
| HMU   | Marble   |
| HNRCK | Not Rock - ie. shotcrete wood etc  |
| HOF   | Ortho Amphibolite - Alkali-rich (Felsic-Intermediate)                          |
| HOFH  | Ortho Hornfels - Alkali-rich (Felsic-Intermediate)                             |
| HOM   | Ortho Amphibolite - Fe-rich (Mafic Derived)                                    |
| HOMH  | Ortho Hornfels - Fe-rich (Mafic Derived)                                       |
| HOU   | Ortho Amphibolite - Mg-rich (Ultramafic Derived)                               |
| HOUH  | Ortho Hornfels - Mg-rich (Ultramafic Derived)                                  |
| HPA   | Para Amphibolite   |
| HPG   | Para Granulite   |
| HPH   | Para Hornfels  |
| HPK   | Para Amphibolites - Alkali-rich (pyrophyllite-biotite-minor alunino-silicates) |
| HPKH  | Para Hornfels - Alkali-rich (muscovite-biotite)                                |
| HPL   | Pelite   |
| HPN   | Para Gneiss  |
| HPP   | Phyllite   |
| HPQ   | Quartzite  |
| HPS   | Slate  |
| HRM   | Carbonate Marl   |
| Z     | Schist (Undifferentiated)  |
| ZBI   | Schist - Biotite   |
| ZCB   | Schist - Carbonate   |
| ZCL   | Schist - Chlorite  |
| ZMU   | Schist - Muscovite   |
| ZSR   | Schist - Sericite  |
| ZTA   | Schist - Talc  |
| TBX   | Fault Breccia  |
| TFT   | Fault (Undifferentiated)   |
| THX   | Hydrothermal Breccia   |
| TMY   | Mylonite   |
| V     | Vein (Undifferentiated)  |
| AX    | Massive Sulphide (Undifferentiated)  |
| HFILL | Back filled stopes/collapsed workings  |
| HVOID | Unfilled stopes/Open workings  |
| HWAST | Waste Dump   |
| LOSS  | Core Loss (no rock sample)   |
| NAVI  | No sample recovered (NAVI drilling)  |
| NLOG  | Not logged   |
| NREC  | No sample recovered (RAB-AC-RC-Blade)  |
| WB    | Backfill   |
| WC    | Water course   |
| WW    | Waste Dump   |
| X     | Unnamed Marker Unit or Formation   |
| XX    | Contamination  |
| I     | Intermediate (Undifferentiated)  |

## COLOUR

|     |               |
|-----|---------------|
| 2A  | Dark Grey     |
| 3A  | Medium Grey   |
| 4A  | Light Grey    |
| C   | Cream         |
| F   | Pink          |
| 2G  | Dark Green    |
| 3G  | Medium Green  |
| 4G  | Light Green   |
| K   | Khaki         |
| N   | Black         |
| 5N  | Pale Black    |
| 2O  | Dark Orange   |
| 3O  | Medium Orange |
| 4O  | Light Orange  |
| P   | Purple        |
| R   | Red           |
| T   | Tan           |
| 2U  | Dark Brown    |
| 3U  | Medium Brown  |
| 4U  | Light Brown   |
| W   | White         |
| 2Y  | Dark Yellow   |
| 3Y  | Medium Yellow |
| 4Y  | Light Yellow  |
| UKN | Unknown       |

## GRAIN SIZE

- 0 Glassy
- 1 Clay (<0.0039mm)
- 2 Silt (0.0039mm - 0.0625mm)
- 3 Very Fine Sand/Fine Sand (0.0625mm - 0.25mm)
- 4 Medium Sand/Coarse Sand (0.25mm - 1.00mm)
- 5 Grit/Granule (1.00mm - 4.00mm)
- 6 Very Small Pebble/Small Pebble (4.00mm-16.00mm)
- 7 Medium Pebble/Large Pebble (16.00mm - 64.00mm)
- 8 Small Cobble/Large Cobble (64.00mm - 256.00mm)
- 9 Small Boulder (>256.00mm)

## TEXTURE

|    |              |
|----|--------------|
| AD | Amygdaloidal |
| AH | Aphanitic    |
| AL | Agglomerate  |
| AM | Amorphous    |
| AP | Aplitic      |
| AT | Adcumulate   |
| AY | Aphyric      |
| BD | Bedded       |
| BN | Banded       |

|    |  |
|----|--|
| BR | Brecciated   |
| CB | Cross-bedded   |
| CC | Concretionary  |
| CM | Chilled Margin   |
| CP | Clast-supported  |
| CT | Clastic  |
| CU | Cumulate   |
| CX | Crystalline  |
| EQ | Equigranular   |
| FB | Flow Banded  |
| FE | Flow Top Breccia (autobreccia)                         |
| FI | Fibrous  |
| FO | Foliated   |
| FR | Fragmental   |
| FS | Fissile  |
| GB | Granoblastic   |
| GF | Graphic intergrowth                                    |
| GH | Ghosted Phenocrystic                                   |
| GL | Granulose  |
| GN | Gneissic   |
| GP | Glomero-porphyritic                                    |
| GR | Granophyric  |
| GV | Gravelly   |
| HF | Hornfelsic   |
| HX | Hyaloclastic (Porphyry brecciated within the porphyry) |
| ID | Interbedded  |
| IG | Intergranular  |
| IQ | Inequigranular   |
| LD | Load Casted  |
| LL | Lit-Par-Lit (interbedded sediments & intrusions)       |
| LM | Laminated  |
| LN | Lenticular   |
| LY | Layered  |
| MC | Mud Cracked  |
| MK | Matrix-supported                                       |
| MM | Migmatitic   |
| MT | Mottled  |
| MX | Massive  |
| OM | Orthocumulate  |
| OP | Ophitic  |
| PB | Porphyroblastic  |
| PC | Porphyroclastic  |
| PD | Pillowed   |
| PF | Feldspar Porphyritic                                   |
| PG | Pegmatitic   |
| PI | Pisolitic  |
| PK | Poikilitic   |
| PL | Pellets  |
| PP | Porphyritic  |
| PQ | Quartz Porphyritic                                     |

|    |  |
|----|--|
| PR | Peperitic  |
| PX | Pillowed Breccia - Hyaloclastic                  |
| QC | Quench Texture                                   |
| SH | Spinifex - Sheaf                                 |
| SN | Spinifex - Random                                |
| SR | Scoured  |
| SS | Soft Sediment Slumping                           |
| SZ | Shear(ed)  |
| TF | Tuffaceous                                       |
| VG | Vuggy  |
| VI | In vein selvages and scattered throughout matrix |
| VS | Vesicular  |
| VT | Variolitic                                       |
| WL | Welded   |
| XC | Cross-cutting                                    |
| XM | Moderately sorted                                |
| XN | Xenolithic                                       |
| XP | Poorly sorted                                    |
| XW | Well sorted                                      |
| ZS | Within shears                                    |

## ALTERATION MINERALS

|      |                         |
|------|-------------------------|
| AA   | Andalusite              |
| AB   | Albite                  |
| ABCL | Albite-Chlorite         |
| ABDO | Albite-Dolomite         |
| ABEP | Albite-Epidote          |
| ABHE | Albite-Haematite        |
| ABLE | Albite-Leucoxene        |
| ABMG | Albite-Magnetite        |
| ABQZ | Albite-Quartz           |
| ABSK | Albite-Silica           |
| ABSR | Albite-Sericite         |
| AC   | Actinolite              |
| AK   | Ankerite                |
| AKCL | Ankerite-Chlorite       |
| AKQZ | Ankerite-Quartz         |
| AL   | Almandine               |
| AO   | Asbestos                |
| AP   | Anthophyllite           |
| AR   | Argillic Clays          |
| AS   | Arsenopyrite            |
| ASCB | Arsenopyrite-Carbonate  |
| ASCL | Arsenopyrite-Chlorite   |
| ASDO | Arsenopyrite-Dolomite   |
| ASPO | Arsenopyrite-Pyrrhotite |
| ASPY | Arsenopyrite-Pyrite     |
| ASQZ | Arsenopyrite-Quartz     |
| AU   | Gold                    |
| AUQZ | Gold-Quartz             |



|          |                                    |
|----------|------------------------------------|
| AX       | Amphiboles (Undifferentiated)      |
| AXCL     | Amphiboles-Chlorite                |
| AY       | Anhydrite                          |
| AZ       | Azurite                            |
| BA       | Barite                             |
| BI       | Biotite                            |
| BIAB     | Biotite-Albite                     |
| BICA     | Biotite-Calcite                    |
| BICB     | Biotite-Carbonate                  |
| BICL     | Biotite-Chlorite                   |
| BIHE     | Biotite-Haematite                  |
| BIQZ     | Biotite-Quartz                     |
| BISK     | Biotite-Silica                     |
| BISR     | Biotite-Sericite                   |
| BO       | Bornite                            |
| CA       | Calcite                            |
| CACL     | Calcite-Chlorite                   |
| CAHE     | Calcite-Haematite                  |
| CALE     | Calcite-Leucoxene                  |
| CAQZ     | Calcite-Quartz                     |
| CASK     | Calcite-Silica                     |
| CASR     | Calcite-Sericite                   |
| CB       | Carbonate (Undifferentiated)       |
| CBAB     | Carbonate-Albite                   |
| CBBI     | Carbonate-Biotite                  |
| CBCL     | Carbonate-Chlorite                 |
| CBCLFUSK | Carbonate-Chlorite-Fuchsite-Silica |
| CBCLQZ   | Carbonate-Chlorite-Quartz          |
| CBCLSK   | Carbonate-Chlorite-Silica          |
| CBCLSR   | Carbonate-Chlorite-Sericite        |
| CBEP     | Carbonate-Epidote                  |
| CBFD     | Carbonate-Feldspar                 |
| CBFU     | Carbonate-Fuchsite                 |
| CBHE     | Carbonate-Haematite                |
| CBLE     | Carbonate-Leucoxene                |
| CBMG     | Carbonate-Magnetite                |
| CBMM     | Carbonate-Manganese                |
| CBMU     | Carbonate-Muscovite                |
| CBQZ     | Carbonate-Quartz                   |
| CBSD     | Carbonate-Siderite                 |
| CBSK     | Carbonate-Silica                   |
| CBSR     | Carbonate-Sericite                 |
| CD       | Chloritoid                         |
| CE       | Chalcocite                         |
| CI       | Cuprite                            |
| CL       | Chlorite                           |
| CLAB     | Chlorite-Albite                    |
| CLAK     | Chlorite-Ankerite                  |
| CLBI     | Chlorite-Biotite                   |
| CLCA     | Chlorite-Calcite                   |

|      |                             |
|------|-----------------------------|
| CLCB | Chlorite-Carbonate          |
| CLHE | Chlorite-Haematite          |
| CLLE | Chlorite-Leucoxene          |
| CLMG | Chlorite-Magnetite          |
| CLMU | Chlorite-Muscovite          |
| CLQZ | Chlorite-Quartz             |
| CLSK | Chlorite-Silica             |
| CLSR | Chlorite-Sericite           |
| CO   | Cordierite                  |
| CT   | Cassiterite                 |
| CU   | Copper (Native)             |
| CX   | Clinopyroxene               |
| CY   | Clay                        |
| CYQZ | Clay-Quartz                 |
| DI   | Diopside                    |
| DO   | Dolomite                    |
| DOQZ | Dolomite-Quartz             |
| DOSR | Dolomite-Sericite           |
| EP   | Epidote                     |
| FD   | Feldspar (Undifferentiated) |
| FU   | Fuchsite                    |
| GO   | Goethite                    |
| GP   | Gypsum                      |
| GY   | Gypsum                      |
| HB   | Hornblende                  |
| HE   | Haematite                   |
| HEAB | Haematite-Albite            |
| HEBI | Haematite-Biotite           |
| HECA | Haematite-Calcite           |
| HECB | Haematite-Carbonate         |
| HECL | Haematite-Chlorite          |
| HEMG | Haematite-Magnetite         |
| HEQZ | Haematite-Quartz            |
| HESK | Haematite-Silica            |
| HESR | Haematite-Sericite          |
| IM   | Ilmenite                    |
| KA   | Kaolinite                   |
| KF   | K-Feldspar                  |
| LE   | Leucoxene                   |
| LM   | Limonite                    |
| MA   | Magnesite                   |
| MC   | Malachite                   |
| MG   | Magnetite                   |
| MGQZ | Magnetite-Quartz            |
| MGSK | Magnetite-Silica            |
| MGSR | Magnetite-Sericite          |
| MH   | Maghaemite                  |
| MI   | Mica                        |
| MM   | Manganese                   |
| MO   | Molybdenite                 |

|      |   |
|------|---|
| MR   | Marcasite   |
| MU   | Muscovite   |
| MUSK | Muscovite-Silica  |
| NO   | Nontronite  |
| OL   | Olivine   |
| OP   | Opal  |
| OR   | Orthopyroxene   |
| PF   | Plagioclase   |
| PH   | Phlogopite  |
| PO   | Pyrrhotite  |
| POAS | Pyrrhotite-Arsenopyrite                                 |
| POPY | Pyrrhotite-Pyrite                                       |
| POQZ | Pyrrhotite-Quartz                                       |
| POSK | Pyrrhotite-Silica                                       |
| PP   | Pyrophyllite  |
| PR   | Pyroxene  |
| PY   | Pyrite  |
| PYAS | Pyrite-Arsenopyrite                                     |
| PYCB | Pyrite-Carbonate  |
| PYCL | Pyrite-Chlorite   |
| PYCP | Pyrite-Chalcopyrite                                     |
| PYPO | Pyrite-Pyrrhotite                                       |
| PYQZ | Pyrite-Quartz   |
| PYSK | Pyrite-Silica   |
| QY   | Quartz - Chalcedonic                                    |
| QZ   | Quartz  |
| RU   | Rutile  |
| SB   | Stibnite  |
| SD   | Siderite  |
| SE   | Serpentine  |
| SH   | Scheelite   |
| SK   | Silica  |
| SM   | Smectite  |
| SP   | Sphalerite  |
| SR   | Sericite  |
| SRAB | Sericite-Albite   |
| SRAK | Sericite-Ankerite                                       |
| SRBI | Sericite-Biotite  |
| SRCA | Sericite-Calcite  |
| SRCB | Sericite-Carbonate                                      |
| SRCL | Sericite-Chlorite                                       |
| SRDO | Sericite-Dolomite                                       |
| SRHE | Sericite-Haematite                                      |
| SRSK | Sericite-Silica   |
| SU   | Sulphides (Undifferentiated)                            |
| TA   | Talc  |
| TL   | Tellurides (Undifferentiated)                           |
| UKN  | Value known to have existed but was lost in translation |

## ALTERATION STYLE

|    |  |
|----|--|
| BB | Blebs  |
| BN | Banded   |
| DS | Disseminated                                   |
| EN | Encrustations/Coatings                         |
| FI | Fibrous  |
| FM | Films along foliations/shears                  |
| FT | Within Fault                                   |
| GS | Staining within and halos around veins/tensile |
| HT | structures                                     |
| IG | Intergranular                                  |
| IN | Interstitial                                   |
| IS | Pressure shadow infill                         |
| MT | Mottled  |
| PM | Pseudomorphic                                  |
| PV | Pervasive                                      |
| PY | Patchy   |
| RE | Replacement                                    |
| RR | Selective Replacement                          |
| SG | In veins and vein selvages                     |
| SO | Spots  |
| TM | Streaks/Smears                                 |
| VH | Vein Halo                                      |
| VI | In vein selvages and scattered                 |
| VV | Through vein matrix                            |
| VV | Vein selvage                                   |
| ZN | Zoned  |
| ZS | Within shears                                  |
| FF | Present along fracture/joint planes            |

## ALTERATION INTENSITY

- 1 Weak Alteration; original texture well preserved
- 2 Moderate alteration; partial destruction of fabric/texture
- 3 Strong alteration; destruction of fabric/texture
- 4 Intense alteration; complete destruction of fabric/texture

## MINERALISATION

|    |               |
|----|---------------|
| AK | Ankerite      |
| CL | Chlorite      |
| GA | Garnet        |
| QZ | Quartz        |
| AS | Arsenopyrite  |
| AU | Gold (Native) |
| AZ | Azurite       |
| BA | Barite        |
| BO | Bornite       |
| CE | Chalcocite    |
| CI | Cuprite       |
| CK | Chrysocolla   |
| CP | Chalcopyrite  |
| CR | Chromite      |

|        |                               |
|--------|-------------------------------|
| CT     | Cassiterite                   |
| CU     | Copper (Native)               |
| GN     | Galena                        |
| GO     | Goethite                      |
| HE     | Haematite                     |
| HS     | Haematite (Specularite)       |
| MA     | Magnesite                     |
| MC     | Malachite                     |
| MG     | Magnetite                     |
| MM     | Manganese (Native)            |
| MO     | Molybdenite                   |
| MR     | Marcasite                     |
| PN     | Pentlandite                   |
| PO     | Pyrrhotite                    |
| PY     | Pyrite                        |
| SB     | Stibnite                      |
| SH     | Scheelite                     |
| SP     | Sphalerite                    |
| SU     | Sulphides (Undifferentiated)  |
| TL     | Tellurides (Undifferentiated) |
| WO     | Wolframite                    |
| AC     | Actinolite                    |
| AX     | Amphiboles (Undiff)           |
| AA     | Andalusite                    |
| BI     | Biotite                       |
| CA     | Calcite                       |
| CB     | Carbonate (Undiff)            |
| CY     | Clay                          |
| DO     | Dolomite                      |
| EP     | Epidote                       |
| FD     | Feldspar (Undiff)             |
| FU     | Fuchsite                      |
| GR     | Graphite                      |
| GP     | Gypsum                        |
| IM     | Ilmenite                      |
| IX     | Iron Oxides                   |
| IXPYQZ | Iron Oxides - Pyrite - Quartz |
| KF     | K-Feldspar                    |
| KA     | Kaolinite                     |
| LM     | Limonite                      |
| MI     | Mica                          |
| LE     | Leucoxene                     |
| MU     | Muscovite                     |
| OL     | Olivine                       |
| OR     | Orthopyroxene                 |
| PH     | Phlogopite                    |
| PF     | Plagioclase                   |
| PR     | Pyroxene                      |
| SD     | Siderite                      |
| SK     | Silica                        |

|     |            |
|-----|------------|
| TO  | Tourmaline |
| UKN | Unknown    |
| SND | Sanidine   |
| TC  | Talc       |
| ZE  | Zeolite    |

## MINERALISATION STYLE

|    |  |
|----|--|
| AC | Acicular   |
| AG | Augen (eyes)                                     |
| AR | Aggregates                                       |
| BB | Blebs  |
| BI | Breccia infillings                               |
| BL | Bladed   |
| BT | Botryoidal                                       |
| BU | Boudined   |
| BW | Boxwork  |
| CX | Crystalline                                      |
| DS | Disseminated                                     |
| EN | Encrustations/Coatings                           |
| EU | Euhedral   |
| FI | Fibrous  |
| FM | Films along foliations/shears                    |
| FR | Fragmental                                       |
| GS | Stainings  |
| HT | Within and halos around veins/tensile structures |
| IN | Interstitial                                     |
| IS | Pressure shadow infill                           |
| LB | Lenoidal-Banded                                  |
| MQ | Mosaics  |
| MX | Massive  |
| ND | Nodular  |
| PM | Pseudomorphic                                    |
| PV | Pervasive  |
| PY | Patchy   |
| RA | Radiating  |
| RE | Replacement                                      |
| RO | Rosettes   |
| RR | Selective Replacement                            |
| SE | Stringer veins/veinlets                          |
| SG | In veins and vein selvages                       |
| SO | Spots  |
| ST | Stylolitic                                       |
| TM | Streaks/Smears                                   |
| VD | Cavity fillings                                  |
| VH | Vein Halo  |
| VI | In vein selvages and scattered throughout matrix |
| VN | Within Vein                                      |
| VV | Vein selvedge                                    |
| ZS | Within shears                                    |
| FF | Present along fracture/joint planes              |

IG Intergranular

## VEIN MINERALOGY

|        |   |
|--------|---|
| IXPYQZ | Iron Oxide Pyrite Quartz                                |
| UKN    | Value known to have existed but was lost in translation |
| VACT   | Actinolite Vein   |
| VALB   | Albite Vein   |
| VALM   | Almandine Vein  |
| VAND   | Andalusite Vein   |
| VANH   | Anhydrite Vein  |
| VANT   | Anthophyllite Vein                                      |
| VAPL   | Aplite Vein   |
| VARG   | Argillic Vein   |
| VASB   | Asbestos Vein   |
| VAZU   | Azurite Vein  |
| VB     | Biotite Vein  |
| VBAR   | Barite Vein   |
| VBOR   | Bornite Vein  |
| VC     | Carbonate Vein  |
| VCAS   | Cassiterite Vein  |
| VCDL   | Dolomite Vein   |
| VCHA   | Chalcocite Vein   |
| VCHR   | Chromite Vein   |
| VCHY   | Chrysocolla Vein  |
| VCK    | Ankerite Vein   |
| VCL    | Calcite Vein  |
| VCOR   | Cordierite Vein   |
| VCPX   | Clinopyroxene Vein                                      |
| VCPY   | Chalcopyrite Vein                                       |
| VCU    | Copper Vein   |
| VCUP   | Cuprite Vein  |
| VCY    | Clay Vein   |
| VD     | Amphibole Vein  |
| VDIO   | Diopside Vein   |
| VE     | Epidote Vein  |
| VET    | Talc Vein   |
| VF     | Feldspar Vein   |
| VFA    | Albite Vein   |
| VFLU   | Fluorite Vein   |
| VFOX   | Iron Oxides   |
| VFUC   | Fuchsite Vein   |
| VG     | Gypsum Vein   |
| VGAL   | Galena Vein   |
| VGAR   | Garnet Vein   |
| VGD    | Gold Vein   |
| VGOE   | Goethite Vein   |
| VGRA   | Graphite Vein   |
| VH     | Chlorite Vein   |
| VHAE   | Haematite Vein  |
| VHAL   | Halite Vein   |

|      |                              |
|------|------------------------------|
| VHAS | Haematite (Specularite) Vein |
| VHL  | Chloritoid Vein              |
| VHOR | Hornblende Vein              |
| VHS  | Chlorite-Sulphide Vein       |
| VHT  | Chlorite-Tourmaline Vein     |
| VIL  | Illmenite Vein               |
| VKAO | Kaolinite Vein               |
| VKF  | K-Feldspar Vein              |
| VKFM | K-Feldspar (Microcline)      |
| VKFO | K-Feldspar (Orthoclase)      |
| VLEU | Leucoxene Vein               |
| VLIM | Limonite Vein                |
| VM   | Base Metal Vein              |
| VMAG | Maghemite Vein               |
| VMAL | Malachite Vein               |
| VMAN | Manganese (Native) Vein      |
| VMAR | Marcasite Vein               |
| VMI  | Mica Vein                    |
| VMNG | Magnesite Vein               |
| VMNT | Magnetite Vein               |
| VMOL | Molybdenite Vein             |
| VMUS | Muscovite Vein               |
| VNON | Nontronite Vein              |
| VO   | Oxide Vein                   |
| VOLV | Olivine Vein                 |
| VOP  | Opalised Vein                |
| VORT | Orthopyroxene vein           |
| VP   | Serpentine Vein              |
| VPB  | Lead Vein                    |
| VPHO | Phologopite Vein             |
| VPLG | Plagioclase Vein             |
| VPNT | Pentlandite Vein             |
| VPP  | Pyrophyllite Vein            |
| VPX  | Pyroxene Vein                |
| VPY  | Pyrite Vein                  |
| VQ   | Quartz Vein                  |
| VQS  | Quartz-Sulphide Vein         |
| VQZC | Quartz - Chalcedonic         |
| VRUT | Rutile Vein                  |
| VS   | Sulphide Vein                |
| VSA  | Arsenopyrite Vein            |
| VSAN | Sanidine Vein                |
| VSAS | Sauserite Vein               |
| VSCH | Scheelite Vein               |
| VSDR | Siderite Vein                |
| VSER | Sericite Vein                |
| VSH  | Sphalerite Vein              |
| VSI  | Silica Vein                  |
| VSMC | Smectite Vein                |
| VSP  | Pyrrhotite Vein              |



|      |                         |
|------|-------------------------|
| VSPH | Sphalerite Vein         |
| VSRP | Serpentine Vein         |
| VSTB | Stibnite Vein           |
| VT   | Tourmaline Vein         |
| VTAL | Talc Vein               |
| VTCL | Telluride Vein (Undiff) |
| VTRE | Tremolite Vein          |
| VW   | White Mica Vein         |
| VWOL | Wolframite Vein         |
| VZR  | Zircon Vein             |

## VEIN STYLE

|    |   |
|----|---|
| AN | Anastomosing                                      |
| BI | Breccia Infillings                                |
| BN | Banded  |
| BQ | Bucky   |
| BU | Boudined  |
| VO | Open Space fill vein (vuggy-cockscombe-colloform) |
| CI | Crustiform  |
| CR | Crackle   |
| CS | Crack-seal  |
| CX | Crystalline                                       |
| DJ | Disjointed  |
| DL | Dilational  |
| EE | En Echelon  |
| EX | Extensional                                       |
| FD | Folded  |
| FF | Fracture  |
| FW | Planar  |
| GA | Gash  |
| HB | Hydraulic/Hydrothermal breccia                    |
| HY | Hydrofractured                                    |
| IS | Pressure Shadow Infills                           |
| KR | Crackle Brecciated                                |
| LB | Lensoidal - Banded                                |
| LM | Laminated   |
| MD | Meandering  |
| PG | Pegmatitic  |
| RB | Ribboned  |
| SE | Stringer Veins/Veinlets                           |
| ST | Styolitic   |
| SG | Sigmoidal   |
| SW | Stockwork   |
| SZ | Shear(ed)   |
| VD | Cavity infilling                                  |
| VG | Vuggy   |
| ZS | Within Shears                                     |
| MX | Massive   |
| BD | Brittle-Ductile Shear                             |
| XC | Cross-cutting                                     |

|    |                                 |
|----|---------------------------------|
| RC | Re-crystallised                 |
| IR | Irregular                       |
| WX | Wallrock breccia and jigsaw fit |

## STRUCTURE TYPE

|     |   |
|-----|---|
| TT  | Fault (Undifferentiated)                    |
| TP  | Fault - Gouge (pug)                         |
| TB  | Fault - Breccia                             |
| TC  | Fault - Cataclasite                         |
| TF  | Fracture                                    |
| HB  | Hydraulic Brecciation                       |
| SZ  | Shear                                       |
| SM  | Mylonite                                    |
| SMB | Mylonite - Banded                           |
| SMP | Mylonite - Porphyroblastic                  |
| SMC | Shear C fabric                              |
| SMS | Shear S fabric                              |
| SBD | Boudinage                                   |
| FF  | Foliation (Undifferentiated)                |
| FFS | Foliation - fine grained and spaced         |
| FFA | Foliation - axial planar                    |
| FFC | Foliation - fine grained and continuous     |
| FSC | Schistosity - coarse grained and continuous |
| FSS | Schistosity - coarse grained and spaced     |
| FMD | Metamorphic layering                        |
| CL  | Cleavage (Undifferentiated)                 |
| CLC | Cleavage - Crenulation                      |
| CLF | Cleavage - Fracture                         |
| CLD | Cleavage - Disjunctive                      |
| VN  | Vein (Undifferentiated)                     |
| VL  | Vein - Laminated                            |
| VS  | Vein - Shear Vein                           |
| VE  | Vein - Extensional                          |
| VO  | Vein - Open space fill (vuggy)              |
| VB  | Vein - Hydrothermal intra vein breccia      |
| VNB | Vein - Net veined breccia (crackled)        |
| CN  | Contact (Undifferentiated)                  |
| CND | Contact - Depositional                      |
| CNI | Contact - Intrusive                         |
| CNS | Contact - Sheared                           |
| LE  | Lineation (Undifferentiated)                |
| LSY | Stylolite                                   |
| LMS | Lineation - Mineral stretching              |
| LSS | Lineation - Slickenside                     |
| LA  | Lineation - Shape Alignment                 |
| LI  | Lineation - Intersection                    |
| BFD | Fold (Undifferentiated)                     |
| BFG | Fold - Gentle                               |
| BFO | Fold - Open                                 |
| BFT | Fold - Tight                                |

|      |                                       |
|------|---------------------------------------|
| BFIC | Fold - Isoclinal                      |
| BFK  | Fold - Kinked                         |
| BFA  | Fold Axis                             |
| PBD  | Primary bedding                       |
| PCB  | Cross bedding                         |
| PGB  | Graded bedding                        |
| PCL  | Convolute laminations/slump folding   |
| PI   | Primary Imbrication                   |
| PW   | Pillow structure/basalt flow boundary |
| PWE  | Water escape structure                |
| JT   | Jointing (Undifferentiated)           |
| J2   | Weakly Jointed                        |
| J4   | Moderately Jointed                    |
| J8   | Strongly Jointed                      |
| VT   | Vein - Tabular                        |
| BFP  | Fold Axial Plane                      |