

1. Tropicana JV –

Alpha_Beta_Method

Code	Description
ProtractorWrap	Core protractor wrap around printed on paper or heavy transparent film
KenometerHC	On half core - 'OriCutCore' orientations from cut drill core as established by JCU Tom Blenkinsop
Kenometer	On whole core - measure alpha and beta angles rapidly and easily. Ori line (BOH) with DH direction m
UNKN	Unknown method used
ProtractorCutOut	Cut out template - Used for measuring surfaces parallel to the core
ProtractorDirect	Douglas combined protractor and parallel rule

Alteration_Assemblage

Code	Description	Definition
-	Not Logged	-
BI	Biotite	BI
BI\CHL	Biotite \ Chlorite	BI\CHL
BI\CHL\SI	Biotite \ Chlorite \ Silica	BI\CHL\SI
BI\CHL\SR	Biotite \ Chlorite \ Sericite	BI\CHL\SR
BI\PY	Biotite \ Pyrite	BI\PY
BI\PY\SI	Biotite \ Pyrite \ Silica	BI\PY\SI
BI\PY\SR	Biotite \ Pyrite \ Sericite	BI\PY\SR
BI\SI	Biotite \ Silica	BI\SI
BI\SR	Biotite \ Sericite	BI\SR
CC	Calcite	CC
CC\CZ	Calcite \ Clinozosite	CC\CZ
CHL	Chlorite	CHL
CHL\BI	Chlorite \ Biotite	CHL\BI
CHL\BI\SI	Chlorite \ Biotite \ Silica	CHL\BI\SI
CHL\BI\SR	Chlorite \ Biotite \ Sericite	CHL\BI\SR
CHL\CC	Chlorite \ Calcite	CHL\CC
CHL\EP\CC	Chlorite \ Epidote \ Calcite	CHL\EP\CC
CHL\SR	Chlorite \ Sericite	CHL\SR
CHL\SR\BI	Chlorite \ Sericite \ Biotite	CHL\SR\BI
SI	Silicified	SI
SR	Sericite	SR
SR\BI	Sericite \ Biotite	SR\BI
SR\BI\CHL	Sericite \ Biotite \ Chlorite	SR\BI\CHL
SR\CC	Sericite \ Calcite	SR\CC
SR\CHL	Sericite \ Chlorite	SR\CHL
SR\CHL\BI	Sericite \ Chlorite \ Biotite	SR\CHL\BI
SR\CHL\CC	Sericite \ Chlorite \ Calcite	SR\CHL\CC
SR\CHL\EP	Sericite \ Chlorite \ Epidote	SR\CHL\EP

Alteration_Intensity

Code	Description	Definition
0	Unaltered	
20	Weakly Altered	
40	Moderately Altered	
60	Strongly Altered	
80	Intensely Altered	

Alteration_Qualifier

Code	Description	Definition
-	Not logged	-
C	Cavity / void infill	C
F	Fabric Replacement	F
FB	Bedding	FB
FC	Cleavage/ schistosity	FC
FN	Gneissic banding	FN
M	Mineral replacement	M
MF	Felsic minerals	MF
MG	Groundmass	MG
MM	Mafic minerals	MM
MP	Porph minerals	MP
P	Pervasive	P
S	Shear plumbing - perv alt'n	S
SP	Patchy alt'n	SP
SSB	Selective alt'n of bedding	SSB
SSD	Selective alt'n of mineral/s	SSD
U	Selective	U
UB	Selective alt of bands	UB
UC	Selective replacement of porphyroblasts	UC
UD	Selective min'l replacement	UD
UM	Selective replacement of groundmass	UM
UP	Patchy/irregular alt'n	UP
V	Alt'n on vein selvage	V
VP	Patchy alt'n	VP
VS	Selective alt'n of bedding	VS
VSD	Selective alt'n of mineral/s	VSD
W	Selvage to stockwork	W
WSB	Selective alt'n of bedding	WSB
WSD	Selective alt'n of mineral/s	WSD
X	Hydrothermal breccia	X

Alteration_Type (Alt 2)

Code	Definition	Description
-	Not logged	
AC	Actinolite	
AK	Ankerite-Dolomite	
AM	Amphibole	
AS	Arsenopyrite	
BI	Biotite	
CC	Calcite	
CHL	Chlorite	
CP	Chalcopyrite	
CZ	Clinozoisite	
DI	Diopside	
EP	Epidote	
FU	Fuchsite	
GL	Galena	
GO	Goethite	
GR	Grunerite	
GT	Garnet	
GU	Glauconite	

HB	Hornblende	
HE	Hematite	
KF	K-feldspar	
MO	Molybdenite	
MT	Magnetite	
MU	Muscovite	
PO	Pyrrhotite	
PY	Pyrite	
RT	Rutile/leucoxene	
SD	Siderite	
SI	Silica	
SM	Sulphides (mixed)	
SP	Sphalerite	
SR	Sericite	
TC	Talc	
TR	Tourmaline	
X	Sulphide (single)	
-	Not logged	

Bi_Chi

Code	Definition	Description
0.0001	0.0001	
0.05	1:20	
0.067	1:15	
0.1	1:10	
0.2	1:05	
0.33	1:03	
1	1:01	
3	3:01	
5	5:01	
10	10:01	
15	15:01	
20	20:01	

Colour

Code	Definition	Description
-	Not Logged	
A	Grey	
A1	Light Grey	
A2	Dark Grey	
B	Brown	
B1	Light Brown	
B2	Dark Brown	
C	Cream	
D	Black	
E	Beige	
G	Green	
G1	Light Green	
G2	Dark Green	
I	Pink	
K	Khaki	
L	Blue	
L1	Light Blue	
L2	Dark Blue	
M	Maroon	

O	Orange	
O1	Light Orange	
O2	Dark Orange	
P	Purple	
R	Red	
R1	Light Red	
R2	Dark Red	
W	White	
Y	Yellow	
Y1	Pale Yellow	
Y2	Dark Yellow	
-	Not Logged	

DataSet

DataSet	Description	Definition
TAGOFTP16	Tropicana JV Data 2016	

Dip_Direction_Method

Code	Description
RocketLauncher	core orientation frame
UNKN	Unknown instrument or method used to measure

Eng

Code	Description	Definition
Y	Geotechnical Brake Yes	
N	Geotechnical Brake No	

Gamma_Method

Code	Description
Gamma360	360 clockwise angle
Gamma180	+ve (clockwise) or -ve angle (0-180) from the
UNKN	Unknown which method was applied

Generation

Code	Description	Definition
-	Not applicable	
S	Single Veinset Generations	
M	Multiple Veinset Generations	

GT_Drill_Code

Code	Definition
RKRB	The interval is noted as solid material (either rock or soil strength altered rock), with some Rubble noted.
SORB	The interval is noted as near-surface soil-like material, with some Rubble noted.
RK	The whole interval is noted as solid material (either rock or soil strength altered rock).
SO	The whole interval is noted as near-surface soil-like material.
SOCL	The interval is noted as near-surface soil-like material, with some Core Loss noted.
RKCL	The interval is noted as solid material (either rock or soil strength altered rock), with some Core Loss noted.

GT_FES

Code	Definition	Description
S5	Very Stiff Clay	Readily indented by thumbnail.
R3	Moderately Strong	Cannot be scraped or peeled with a pocket knife; Specimen can be fractured with single firm blow of geological hammer.
R6	Extremely Strong	Specimen can only be chipped with geological hammer.
S3	Firm Clay	Can be penetrated several inches by thumb with moderate effort.
S6	Hard Clay	Indented with difficulty by thumbnail.
R5	Very Strong	Specimen requires many blows of geological hammer to fracture it.
S4	Stiff Clay	Readily indented by thumb, but penetrated only with great effort.
S1	Very Soft Clay	Easily penetrated several inches by fist.
R0	Extremely Weak	Indented by thumbnail.
R4	Strong	Specimen requires more than one blow of geological hammer to fracture it.
R2	Weak	Can be scraped or peeled by a pocket knife with difficulty; Shallow indentations made by firm blow with point of geological hammer.
S2	Soft Clay	Easily penetrated several inches by thumb.
R1	Very Weak	Crumbles under firm blows with point of geological hammer; Can be peeled by a pocket knife.

GT_Infill

Code	Definition
AK	Chalky/white ankerite/dolomite
AM	Amphibole
AP	Pyroxene
AS	Arsenopyrite
BI	Biotite
CC	Calcite (reacts to HCl)
CP	Chalcopyrite
EP	Epidote
FU	Fuchsite
GL	Galena
GP	Gypsum
HE	Haematite
LM	Limonite
PL	Fluorite
PY	Pyrite
QO	Opaque quartz
QS	Black/Smokey quartz
QT	Translucent quartz
SC	Scheelite
SD	Siderite
SHL	Chlorite
SR	Sericite
TR	Tourmaline
X	Sulphides

GT_Infill_Thickness

Code	Definition
4	Sheared with no wall contact or thick zones of highly weathered material

3	Thickness of infill >5mm
2	Thickness of infill <5mm
1	Thickness of infill <1mm

GT_Infill_Type

Code	Definition
A	Tightly healed; Hard; Non-softening; Impermeable Filling; ie Quartz or epidote.
B	Unaltered joint walls; Surface staining only.
C	Slightly altered joint walls. Non-softening mineral coatings; Sandy particles
D	Silty or sandy clay coatings; Small clay fraction (non-softening).
E	Softening or low friction clay mineral coatings; ie kaolinite or mica. Also chlorite talc gypsum
F	Sandy particles; Clay-free disintegrated rock.
G	Strongly over-consolidated; Non-softening; Clay mineral fillings (continuous; <5mm thickness).
H	Medium or low over-consolidation; Softening; Clay mineral fillings (continuous; <5mm thickness).
J	Swelling-clay fillings; ie Montmorillonite (continuous; <5mm thickness).
K	Zones or bands of disintegrated or crushed rock; Strongly over-consolidated.
L	Zones bands clay, disintegrated - crushed rock; Medium low over-consolidation or softening fillings.
M	Zones or bands of clay, disintegrated - crushed rock; Swelling clay.
N	Thick continuous zones or bands of clay Strongly over-consolidated.
O	Zones or bands of clay, disintegrated - crushed rock; Medium low over-consolidation.
P	Thick continuous zones or bands of clay. Swelling clay.

GT_JWA

Code	Definition
2	Wall < Rock hard (Dry)
1	Wall = Rock hard
3	Wall < Rock hard (Wet)

GT_Physical_State

Code	Definition	Description
MW	Moderately Weathered	Staining or discoloration extends throughout all rock substance. Original colour of the fresh rock is no longer recognisable.
CW	Completely Weathered	Rock has soil properties. It can be remoulded and classified according to the USCS although texture and fabric of the original rock can still be recognised.
HW	Highly Weathered	Limonite staining or bleaching affects all rock substance and other signs of chemical and physical decomposition are evident. Colour and strength of the original fresh rock no longer recognisable.
DC	Duricrust	Hard layer on or near the surface. The texture and fabric of the original rock cannot be recognised.
FR	Fresh	No visible sign of weathering.
RS	Residual Soil	Soil formed in place from primary bedrock. It can be remoulded and classified according to the USCS. The texture and fabric of the original rock cannot be recognised.
SW	Slightly Weathered	Partial (<5%) staining or discoloration of rock substance usually by limonite. Colour and texture of fresh rock is recognisable. No discernable effect on the strength properties of the parent rock.
TM	Transported	Materials deposited by water, wind, ice or gravity.

	Material	
CM	Cumulose Material	Accumulation in place of organic matter.

GT_Sets

Code	Definition	Description
1+	3	One joint set plus random.
C	20	Crushed rock; Earth like.
2	4	Two joint sets.
1	2	One joint set.
3+	12	Three joint sets plus random.
3	9	Three joint sets.
M	1	Massive; No or few joints.
2+	6	Two joint sets plus random.
4	15	Four or more joint sets; Heavily jointed; sugar-cube.

Infill

Code	Description	Definition
AK	Chalky/white ankerite/dolomite	
AM	Amphibole	
AP	Pyroxene	
AS	Arsenopyrite	
BI	Biotite	
CC	Calcite (reacts to HCl)	
Code	Description	
CP	Chalcopyrite	
EP	Epidote	
FU	Fuchsite	
GL	Galena	
GP	Gypsum	
HE	Haematite	
LM	Limonite	
PL	Fluorite	
PY	Pyrite	
QO	Opaque quartz	
QS	Black/Smokey quartz	
QT	Translucent quartz	
SC	Sheltie	
SD	Siderite	
SHL	Chlorite	
SR	Sericite	
TR	Tourmaline	
X	Sulphides	

Orientation

Code	Description	Definition
CON	Confirmed	Core orientation confirmed
UNC	Unconfirmed	Core orientation unconfirmed
NO	No orientation line	No orientation line

Rock_Type (Major – Minor) Regional

Code	Description	Definition
QL	Quaternary	
QLCC	calcrete	
QLCO	colluvium	
QLCY	clay	
QLGN	nodular gravels	
QLGP	pisolitic gravels	
QLGR	gravels (general - see qualifier)	
QLGYP	gypsiferous sediments	
QLSD	sand	
QLSIC	silcrete	
TL	Tertiary	
TLCC	calcrete	
TLCF	iron segregations	
TLCY	clay	
TLD	lateritic duricrust (general)	
TLDG	pebbly duricrust	
TLDM	massive duricrust	
TLDO	pisolitic-nodular duricrust	
TLDP	pisolite (pisolitic duricrust	
TLDT	mottled duricrust	
TLFE	ferricrete	
TLG	lateritic gravels	
TLGN	loose nodules	
TLGO	gossan	
TLGP	loose pisoliths	
TLGR	gravel (not lateritic)	
TLGS	graphitic shale	
TLGYP	gypsum	
TLLM	limestone / marl	
TLSB	carbonaceous shale / lignite	
TLSC	sandstone/siltstone +/- peat	
TLSD	sand	
TLSG	glauconitic sandstone / sand	
TLSIC	silcrete	
TLSS	sandstone	
TLST	siltstone	
TLSU	mudstone	
K	Cretaceous	
KCY	clay	
KSB	Carbonaceous (black) sediments and clay	
KSC	polymictic conglomerate	
KSD	sand - fine-coarse grained, loose	
KSS	sand - fine-coarse grained	
KST	sandstone/siltstone +/- pyrite	
KSU	mudstone	
V	Vein	
MS	Permian sediments	
MSC	conglomerate (general)	
MSCY	claystone	
MSS	arenite (general)	
MST	siltstone (general)	
MSU	blue/grey sandstone +/- pyrite	
MSZG	graphitic schist/slate	
AL	Saprolite	
ALCY	saprolitic clay	

ALGO	gossan	
ALCF	iron segregations	
AN	Gneiss	
ANF	quartzo-feldspathic gneiss	
ANFQ	feldspar-quartz-bearing	
ANFF	feldspar-rich	
ANFA	feld>Amp-Bi +/- Qtz	
ANFP	quartzo-feldspathic gneiss (porphyroblastic)	
ANA	amphibolitic gneiss	
ANB	biotite-feldspar gneiss	
ANC	calc-silicate gneiss	
ANG	garnet-bearing gneiss	
ANGA	Garnet-bearing amphibolite	
ANSG	spotted gneiss (former garnet)	
ANM	hbl-px-fld+/-gt gneiss (granulite)	
ANCA	Amphibole rich gneiss	
ANCQ	Silica rich calc-silicate gneiss	
ANFG	Feldspathic gneiss with garnet	
ANGQ	Qtz-Fld - Garnet gneiss	
ANMA	Paragneiss- Garnet bearing	
ANMQ	Paragneiss - Qtz bearing	
ANX	hbl-px-fld+/-gt gneiss (granulite)	
AM	Amphibolites	
AMM	actinolite dom amphibolite	
AMU	tremolite dom amphibolite	
AMB	hornblende dom amphibolite	
AMX	pyroxene dominated amphibolite	
AMXC	clinopyroxene-plag rocks	
AMXO	orthopyroxene-plag rocks	
AD	Mafic intrusives	
ADD	dolerite	
ADQ	qtz dolerite	
ADG	gabbro	
ADT	qtz gabbro	
ADN	gabbro-norite	
ADA	anorthosite	
AG	Granitoids	
AGQ	qtz-rich granitoids	
AGK	syenogranite/quartz syenite	
AGS	syenite	
AGG	granite (senso stricto)	
AGM	monzonite/quartz monzonite	
AGI	monzodiorite/qtz monzodiorite	
AGT	granodiorite	
AGO	tonalite	
AGD	diorite/qtz diorite	
AP	Intrusives	
APF	feld dom felsic porphyry	
APQ	qtz dom felsic porphyry	
APB	biotite dom lamprophyre	
APM	amphibole dom lamprophyre	
API	andesite porphyry	
APD	dacitic porphyry	
APA	aplite	
APP	pegmatite	
APPF	feldspar-rich	
APPQ	quartz-feldspar-bearing	
APPH	feldspar-quartz-amphibole	

APPA	amphibole-rich	
PP	Proterozoic Intrusives	
PPBU	basalt (unsheared)	
PPBS	basalt (sheared)	
PPDU	dolerite (unsheared)	
PPDS	dolerite (sheared)	
PPP	pegmatite	
PPG	granitoids	
PPGQ	quartz-rich granitoids	
PPGK	syenogranite/quartz syenite	
PPGS	syenite	
PPGG	granite (senso stricto)	
PPGM	monzonite/ qtz monzonite	
PPGI	monzodiorite	
PPGT	granodiorite	
PPGO	tonalite	
PPGD	diorite/ qtz diorite	
PPGA	aplite	
PPGB	biotite dom lamprophyre	
PPGD	dacitic porphyry	
PPF	feld dom felsic porphyry	
PPI	andesite porphyry	
PPM	amphibole dom lamprophyre	
PPQ	qtz dom felsic porphyry	
PN	Proterozoic gneiss (Albany Fraser only)	
PNF	quartzo-feldspathic gneiss	
PNA	amphibolitic gneiss	
PNG	garnet-bearing gneiss	
PNM	granulite (px-hbl-fld +/- qtz)	
PNP	metasedimentary gneiss	
AZ	Schists	
AZB	biotite dom schist	
AZC	chlorite dom schist	
AZM	muscovite dom schist	
AZS	sericite dom schist	
AZT	talc dom schist	
AZP	feldspar dom schist	
AZQ	quartz dom schist	
AZA	amphibole dom schist	
AZU	fuchsite bearing schist	
AZQF	quartzo-feldspathic schist	
AZG	graphite bearing schist	
AY	Mylonites	
AYM	mafic/ultramafic mylonite	
AYI	intermediate/mafic mylonite	
AYF	felsic/intermediate mylonite	
AYG	granitoid derived mylonite	
AYN	gneiss derived mylonite	
AX	Sulphide bearing rock	
AXPY	>50% pyrite rock	
AXA	>50% arsenopyrite rock	
AS	Undifferentiated sediments	
ASQ	quartzose/sandy	
ASQT	quartzite	
ASL	lithic sediments	
ASF	feldspathic sediments	
ASFE	ferruginous sediments	
ASG	greywacke	

ASC	conglomerate (general)	
ASP	polymict conglomerates	
ASM	monomict/oligomict conglom	
ASS	arenite (general)	
AST	siltstone (general)	
ASU	mudstone, slate	
ASB	carb sediments/ black shales	
ASSLM	Limestone	
AC	Cherts	
ACM	massive cherts	
ACI	banded iron formation	
ACJ	jaspilitic cherts	
ACL	white & grey/black bd'd chert	
AF	Felsic Volcanics	
AFT	trachyte	
AFR	rhyolite	
AFD	rhyodacite	
AFS	felsic volc sediment	
AFV	volcanoclastic	
AI	Intermediate volcanic	
AIA	andesite	
AIT	trachyandesite	
AIB	basaltic andesite	
AID	dacite	
AIV	intermediate volc (general)	
AB	Mafic volcanics	
ABI	andesitic basalt	
ABM	high-Mg basalt	
ABT	doleritic basalt	
ABL	plag dom basalt	
ABA	amphibole dom basalt	
ABC	chlorite dom basalt	
ABP	porphyritic basalt	
ABV	basaltic volcanoclastics	
ABX	breccia (undiff)	
ABXA	breccia w angular clasts	
ABXR	breccia w rounded clasts	
AK	Komatiites	
AKA	aphanitic komatiite	
AKS	spin text komatiite	
AKC	cumulate text komatiite	
AKCA	Adcumulate texture	
AKCO	Orthocumulate texture	
AKCM	Mesocumulate texture	
AU	Ultramafic intrusives	
AUP	peridotite (>50% olivine)	
AUD	dunite (>90% olivine)	
AUR	pyroxenite	
AUA	hornblendite	
AUS	serpentinised ultramafic	
AUT	talc dom serpentinite	
AUC	chlorite dom serpentinite	
AUM	tremolite dom serpentinite	
A	Other	
AAZ	Altered zone (parent rock?)	
-	not Logged	
NS	no sample	
STOPE	void or stope	

?	uncertainty	
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Regolith_Qualifier

Code	Description	Definition
-	Not Logged	
CA	Calcified	
FE	Ferruginised	
FE/CA	Ferruginised/Calcified	
FE/H	Ferruginised/Hardpanised	
FE/SI	Ferruginised/Silicified	
H	Hardpanised	
H/CA	Hardpanised/Calcified	
MM	Moderately mottled, 10-30% rusty mottle	
PZ	Pallid Zone	
SI	Silicified	
SI/C	Silicified/Calcified	
SI/F	Silicified/Ferruginised	
SI/H	Silicified/Hardpanised	
SM	Strongly mottled, >30% rusty mottle	
WM	Weakly mottled, <10% rusty mottle	

Regolith_Type

Code	Description	Definition
-	Not Logged	
COV	Cover	
COVL	Cover leached	
FRESH	Fresh rock	
L	Lateritic residuum	
LSAP	Lower saprolite	
RECENT	Recent	
SAPRK10	Saprock 10% weathered	
SAPRK20	Saprock 20% weathered	
SAPRK5	Saprock 5% weathered	
SOIL	Residual soil	
TPD	Transported or superficial deposits	
USAP	Upper saprolite	

Rock_Qualifier

Code	Description	Definition
-	Not logged	
#AS	Asbestiform / acicular minerals	
#RD	Radioactive	
A	alluvium	
AG	Augen textured	
AN	Angular	
BD	bedded/interbedded	
BI	bimodal	
BU	Boudinaged	
BW	boxworked	
BX	brecciated	
C	colluvium	
CB	coarsely banded >1cm	
CG	coarse grained 5-30mm	
CL	cleaved	

CR	crenulated	
CS	Clast supported	
CU	cumulate (undiff)	
CUA	Adcumulate	
CUM	Mesocumulate	
CUO	Orthocumulate	
CV	Cleavage	
D	dominantly lat duricrust derived frags	
E	pedolith / saprolite derived fragments	
EQ	equigranular	
F	ferruginous lithic fragments	
FG	fine grained <1mm	
FL	flow banded	
FM	flame structures	
FO	folded	
FR	fractured	
FS	Fossiliferous	
FT	foliated	
FU	facing uphole	
G	gravelly (only a modifier)	
GA	Graphic (igneous texture, not graphite)	
GB	granoblastic	
GF	Granofelsed	
GO	goethite stained	
GP	graphitic	
GR	graded (graded bedding)	
HE	hematite stained	
HF	Hornfelsed	
HY	hyaloclastitic	
IG	Intergranular	
IN	Intrusive	
IQ	Inequigranular	
JN	jointed	
KI	Kinematic indicators (general)	
L	dominantly other lithic fragments	
LA	laminated	
LC	load cast/s	
LE	leucocratic	
LI	lineated	
MA	massive	
MB	Medium gneissic banding	
MC	Miarolitic	
ME	mesocratic	
MG	medium grained 1-5mm	
MI	Migmatitic / partial melt texture	
ML	melanocratic	
MS	Matrix supported	
MT	magnetic/magnetite	
MY	Mylonitic	
N	Nodular	
OB	Orbicular	
OC	Ocelli	
OO	Oolitic	
OP	ophitic	
P	dominantly pisolitic fragments	
PB	pebbly	

PC	Pisolites with cutans	
PG	pegmatoidal	
PH	phyllitic	
PK	Poikilitic	
PL	Pebbly	
PM	Pumiceous / scoraceous	
PO	porphritic/porphyroblastic	
PS	Poorly sorted	
PU	puggy	
PW	pillowed	
Q	dominantly quartzose fragments	
R	dominantly basement rock fragments	
RD	Rounded	
RE	Retrograded	
RP	ripple marks	
RV	Rapakivi	
S	sandy	
SA	pseudomorphs amphibole	
SAN	Sub angular	
SB	pseudomorphs biotite	
SC	schistose	
SG	pseudomorphs garnet	
SH	Sheared	
SP	spherulitic	
SR	Running sand	
SRD	Subrounded	
ST	Styolitic	
SX	Spinifex textured	
T	pisoliths with cutans (ie insitu/mnr tpd	
U	running sand	
V	vesicular, amygdaloidal	
VCG	very coarse grained	
VE	Vesicular, amygdaloidal	
VFG	very fine grained < 0.1mm	
VU	Vuggy	
W	aeolian	
WRD	Well rounded	
WS	Well sorted	
XB	cross bedded	
XN	xenolithic	
Y	clayey	

Roughness

Code	Description	Definition
-	Not Logged	
PK	Planar Slickensided	
PP	Planar Polished	
PR	Planar Rough	
PS	Planar Smooth	
SK	Stepped Slickensided	
SP	Stepped Polished	
SR	Stepped Rough	
SS	Stepped Smooth	
UK	Undulating Slickensided	
UP	Undulating Polished	
UR	Undulating Rough	

US	Undulating Smooth	

Shear_Per

Code	Definition	Description
0	Unsheared	
20	Weakly Sheared	
40	Moderately Sheared	
60	Strongly Sheared \ Schistose	
80	Mylonitic	

Structure_Type

Code	Definition	Description
B	Bedding	
BD	banding	
BR	Breccia Zone	
C	Geological Contact	
C/C	conformable	
C/I	intrusive	
C/I/M	proterozoic mafic	
C/I/P	pegmatite	
C/IG	granitoid	
C/U	unconformable	
FD	folding	
FD/AP	axial plane	
FD/FB	fold limb	
FD/FH	fold hinge	
FD/FL	flat lying	
FD/FTP	fault propagated fold	
FD/UP	upright	
FR	Fracture Zone	
FR/-	no fill	
FR/BX	breccia	
FR/VN	vein	
FT	Fault Zone	
FT/DN	dextral-normal	
FT/DR	dextral- reverse	
FT/DS	dip slip	
FT/DX	dextral	
FT/NM	normal	
FT/RV	reverse	
FT/SN	sinistral-normal	
FT/SR	sinistral-reverse	
FT/SS	strike slip	
FT/SX	sinistral	
L	Lineation	
L/LH	hinge line	
L/LI	intersection lineation	
L/LM	Mineral lineation	
L/LS	stretching lineation	
S	cleavage	
S/AP	axial planar	
S/CC	crenulation	
S/CS	closely spaced	

S/SA	relatively earlier surface	
S/SB	relatively later surface	
S/SC	slaty	
S/WS	widely spaced	
SH	Shear Zone	
SH/C1	C' (prime)	
SH/C1/DN	dextral-normal	
SH/C1/DR	dextral- reverse	
SH/C1/DS	dip slip	
SH/C1/DX	dextral	
SH/C1/NM	normal	
SH/C1/RV	reverse	
SH/C1/SN	sinistral-normal	
SH/C1/SR	sinistral-reverse	
SH/C1/SS	strike slip	
SH/C1/SX	sinistral	
SH/CP	C-Plane	
SH/CP/DN	dextral-normal	
SH/CP/DR	dextral- reverse	
SH/CP/DS	dip slip	
SH/CP/DX	dextral	
SH/CP/NM	normal	
SH/CP/RV	reverse	
SH/CP/SN	sinistral-normal	
SH/CP/SR	sinistral-reverse	
SH/CP/SS	strike slip	
SH/CP/SX	sinistral	
SH/DN	dextral-normal	
SH/DR	dextral- reverse	
SH/DS	dip slip	
SH/DX	dextral	
SH/NM	normal	
SH/RV	reverse	
SH/SN	sinistral-normal	
SH/SP	S-Plane	
SH/SP/DN	dextral-normal	
SH/SP/DR	dextral- reverse	
SH/SP/DS	dip slip	
SH/SP/DX	dextral	
SH/SP/NM	normal	
SH/SP/RV	reverse	
SH/SP/SN	sinistral-normal	
SH/SP/SR	sinistral-reverse	
SH/SP/SS	strike slip	
SH/SP/SX	sinistral	
SH/SR	sinistral-reverse	
SH/SS	strike slip	
SH/SX	sinistral	
V	Vein	

Structure_Vein_Class

Code	Definition	Description
-	Not Logged	
AK	Chalky/white ankerite/dolomite	
AM	Amphibole	
AS	Arsenopyrite	

BI	Biotite	
CC	Calcite (reacts to HCl)	
CHL	Chlorite	
CL	Clay	
CP	Chalcopyrite	
D	Siderite	
EP	Epidote	
F	Feldspar	
FL	Flourite	
FU	Fuchsite	
GA	Galena	
GP	Gypsum	
GR	Graphite	
HE	Haematite	
LM	Limonite	
PY	Pyrite	
QO	Opaque quartz	
QS	Black/Smokey quartz	
QT	Translucent quartz	
SC	Scheelite	
SR	Sericite	
TR	Tourmaline	
X	Sulphides	

Sulphide_Per

Code	Definition	Description
0	percent	
0.5	percent	
1	percent	
2	percent	
3	percent	
5	percent	
7	percent	
10	percent	
15	percent	
20	percent	
25	percent	
30	percent	
40	percent	
50	percent	
70	percent	
90	percent	
100	percent	

Sulphide_Qualifier

Code	Definition	Description
-	Not logged	
A	anhedral fg	
B	anhedral cg	
C	cavity filling	
D	Disseminated	
E	euheral cg	
I	Diagenetic	
L	crystal cluster/aggregate	
M	Massive	

N	nodules	
P	pervasive	
R	Replacement	
S	vein selvedge	
U	euهدral fg	
V	within veins	

Sulphide_Type

Code	Definition	Description
-	Not Logged	
\$G	Gold	
AS	Arsenopyrite	
AZ	Azurite	
BM	Bismuthinite	
BO	Bornite	
CB	Cinnabar	
CO	Chalcocite	
CP	Chalcopyrite	
CU	Native Copper	
CV	Covellite	
EN	Enargite	
GL	Galena	
MA	Malachite	
MO	Molybdenite	
PO	Pyrrhotite	
PT	Pentlandite	
PY	Pyrite	
SB	Stibnite	
SP	Sphalerite	
TE	Teluride	
X	Sulphides Unknown	

Vein_Qualifier

Code	Definition	Description
-	Not logged	
A	Anastomosing	
B	Brecciated	
C	Comb textured	
D	Diffuse	
E	Massive	
L	Laminated	
M	Multistage	
S	Sheeted	
T	Stockwork	
V	Vuggy	
W	Wispy	

Vein_Type

Code	Definition	Description
-	Not Logged	
AK	chalky/white ankerite/dolomite	
AM	amphibole	
BI	biotite	
CC	calcite (reacts to HCl)	

CHL	chlorite	
CP	Chalcopyrite	
D	siderite	
EP	epidote	
FL	fluorite	
FU	fuchsite	
GP	Graphite	
HE	haematite	
PO	Pyrrhotite	
PX	pyroxene	
PY	pyrite	
QO	opaque quartz	
QS	black/Smokey quartz	
QT	translucent quartz	
R	fluorite	
SC	scheelite	
SR	sericite	
TR	Tourmaline	
X	sulphides	

Water

Code	Definition	Description
D	Dry	
M	Moist	
A	Water inflow after rod change	
W	Wet	
I	Injected Water	
F	Injected Water and additive (i.e. foam)	
T	Top of the water table	

Weathering_Per

Code	Definition	Description
100	Percent	
70	Percent	
40	Percent	
20	Percent	
10	Percent	
5	Percent	
0	Percent	