

Cameco Australia Pty. Ltd.

Goomadeer EL's 5892, 2858 - Outcrop Lithology and Physical Properties

Sample Number	Outcrop Description	Formation	Lithology	Sed. structure	Gamma Cps (max)	Grain Size	Friability	Maximum Clast Size (mm)	Mag-Sus	Primary Colour	Secondary Colour	Description of sample
GD03C10200	low rock bench of sheared foliated basement rock	Nimbuwah Complex	sheared quartz-feldspar gneiss		73		2		0.06	7.5YR7/6	10R7/1	sheared granitic gneiss along linear resistant ridge; small parasitic kink folding (4cm frequency) mineral alignment parallel to main shear trend
GD03C10201	top of resistant prominent ridge of sheared foliated basement with trace green mineral smeared on fracture planes	Nimbuwah Complex	sheared quartz-feldspar gneiss		73		1		0.06	N7/1	N8/1	sheared granitic gneiss with green mineral; unknown green - turquoise mineral smeared on fracture planes and disseminated
GD03C10202	top of resistant prominent ridge of sheared foliated basement	Nimbuwah Complex	sheared quartz-feldspar gneiss		95		1		0.06	10R3/3	10R7/1	purple sheared rock with bleached patches and yellowish sericite; more micaceous than 0200, 0201. Purple hematite and bleached blotches.
GD03C10203	rubby scree covered unconformity at base of sandstone escarpment	Mamadawerre Sandstone	quartz feldspar gneiss and c-g sandstone		66	3. Granules	1	0.5	0.03	10R6/1	10R8/2	Redox zone very close to projected u/c sandstone proximal to u/c; 20cm basal pebble to cobble conglomerate overlying basement unconformity
GD03C20203	rubby scree covered unconformity at base of sandstone escarpment	Mamadawerre Sandstone	quartz feldspar gneiss and c-g sandstone		66		1		0.04	N3/1	10Y8/1	redox basement rock; 20cm basal pebble to cobble conglomerate overlying basement unconformity
GD03C10205	subcropping basement within pesolite covered sands	Nimbuwah Complex	granitic gneiss		292		1		0.42	N3/1	10Y8/1	granodioritic composition. Mafic mineral alignment; arad anomaly 200m to north of outcrop. Ferrigenous pesolites scattered over sand
GD03C10206	subcropping basement	Nimbuwah Complex	leucocratic granitic gneiss		189		1		0.37	N3/1	10Y8/1	non foliated quartz rich granitic gneiss - 5% mafics;
GD03C10207	low subcropping boulders of granitic gneiss	Nimbuwah Complex	weakly foliated granitic gneiss		87		1	5	0.78	N3/1	10GY8/1	quartz feldspar biotite gneiss (10% mafics);
GD03C10208	allochthonous boulder of granitic gneiss within Cambrian sandstone scree	Nimbuwah Complex	weakly foliated leucocratic granitic gneiss		73		1	7	0.02	7.5YR4/6	7.5YR3/2	quartz feldspar biotite (<5% mafics); single float boulder of basement rock at base of scree slope
GD03C10209	rubby strongly foliated micaceous granitic gneiss	Nimbuwah Complex	strongly foliated muscovitic granitic gneiss		124		1		0.05	10R6/4	10R4/1	mainly gneiss with local schistose fabric, stretched quartz grains parallel to foliation. Pegmatic segregations with very coarse muscovite.;
GD03C10210	rubby micaceous granitic gneiss	Nimbuwah Complex	strongly foliated muscovitic granitic gneiss		73		1		0.09	10R7/1	10R3/3	granitic gneiss with pegmatite and partial melts; local small scale assymetric folding and some contortion of foliation by pegmatites and partial melts.
GD03C10211	vague to weakly foliated granitic gneiss boulders and rubble	Nimbuwah Complex	weakly foliated leucocratic granitic gneiss		73		1		7.64	2.5YR6/3	2.5YR5/1	very weakly foliated leucocratic granitic gneiss with some pink alteration surrounding fractures; old camp site with pots and kettle on top of rocky knob
GD03C10212	non-foliated pinkish granitic gneiss rubby hill surrounded by intrusive phenocrystic granitoid	Nimbuwah Complex	non-foliated slightly altered granitic gneiss		117		1		6.54	10R/4	10R3/1	weak pinkish alteration of feldspars; granitic gneiss displays some alteration effects from the phenocrystic granitoid intrusion surrounding the outcropping gneiss.
GD03C10213	non-foliated crystalline granodiorite boulders and subcrop	Nimbuwah Complex	non-foliated granodiorite		73		1		0.11	N3/1	N8/1	quartz plagioclase biotite;
GD03C10214	rounded boulders of well foliated granitic gneiss	Nimbuwah Complex	granitic gneiss		180		1	6	7.5	5YR2.5/1	5YR8/1	quartz feldspathic granitic gneiss with 10-15% biotite; thin (<3cm) cross cutting pegmatoid veins
GD03C10215	small scale trough cross bedded sandstone forms small sheer faces at base of escarpment	Mamadawerre Sandstone	medium grained sandstone	small trough cross beds, thin beds	105	7. fine sand	1	15	0.1	5YR7/6	5YR8/1	pebbly bands up to 5cm thick (avg clast size 13mm) in proximity to sample
GD03W10217	castellated and rugged tilted sandstone intersected by thin quartz veins and siliceous deformation bands at edge of escarpment	Mamadawerre Sandstone	pebbly granule stone	large scale trough cross beds	85							siliceous deformation bands up to 8mm wide and exhibiting slickensides; slickensides on siliceous deformation bands indicate sinistral movement with a minor dip slip component. Deformation bands are oblique to main interpreted structure tracing the edge of the escarpment.
GD03C10217	castellated and rugged tilted sandstone intersected by thin quartz veins and siliceous deformation bands at edge of escarpment	Mamadawerre Sandstone	pebbly granule stone	large scale trough cross beds	85	4. very coarse sand	1	45	0	5YR7/6	5YR8/1	poorly sorted granule stone; slickensides on siliceous deformation bands indicate sinistral movement with a minor dip slip component. Deformation bands are oblique to main interpreted structure tracing the edge of the escarpment.