

Cameco Australia Pty. Ltd.**Nabarlek Project EL's 10176, 24371, 24372 - Outcrop Sample Descriptions and Properties - 2006**

Sample Number	Assay Code	Formation	Lithology	Outcrop Description	Total Gamma (Counts per Second)	Magnetic Susceptibility (SI Units)	Grain Size	Maximum Clast Size (mm)	Comments
NA060001	ASSAY	Cz	Gravel	temporary gravel pit near creek in radiometric anomaly	165		Cobble: > 64 mm		40 Sample taken from borrow pit
NA060002	ASSAY	Phe	Pebbly sandstone		45				
NA060003	ASSAY	Phe	Fine sandstone		40				
NA060004	ASSAY	Phe	Fine sandstone		35				
NA060005	ASSAY	Phe	Fine sandstone		70				
NA060006	ASSAY	Phe	Medium sandstone		35				
NA060007	ASSAY	Phe	Fine sandstone		600				
NA060008	ASSAY	Phe	Fine sandstone		600				
NA060009	ASSAY	Phe	Fine sandstone		550				
NA060010	ASSAY	Phe	Pebbly sandstone		60				
NA060011	ASSAY	Phe	Pebbly sandstone		75				
NA060012	ASSAY	Phe	Pebbly sandstone		200				
NA060013	ASSAY	Phe	Sandstone	light grey bleached sandstone in creek bed. Nearby rock bar in creek bed granitic hill adjacent to creek					
NA060014	ASSAY	Pxn	Gneiss						
NA060016	ASSAY	Pgn	Nabarlek Granite	whalebacks and small hills with abundant quartz-pegmatite veins	350				
NA060017	ASSAY	Phe	Medium sandstone	Dark algae covered sandstone wall on south side of depression	65		Medium Sand: 0.25 - 0.5 mm		
NA060018	ASSAY	Phe	Medium sandstone	desilicified sandstone wall	60		Medium Sand: 0.25 - 0.5 mm		
NA060019	ASSAY	Phe	Medium sandstone	Silicified sandstone wall, flat lying	65		Medium Sand: 0.25 - 0.5 mm		
NA060020	ASSAY	Phe	Medium sandstone	Medium sandstone immediately above pebbly sandstone	50		Medium Sand: 0.25 - 0.5 mm		
NA060021	ASSAY	Phe	Pebbly sandstone	Boulder outcrop in creek bed	55		Pebble: 4 - 64 mm		
NA060022	ASSAY	Phe	Pebbly sandstone	Pebbly sandstone with clay alteration	60		Pebble: 4 - 64 mm	40	
NA060023	ASSAY	Phe	Fine sandstone	small boulder on colluvial slope	45		Fine Sand: 0.125 - 0.25 mm		
NA060024	ASSAY	Phe	Fine sandstone	flat lying sandstone bench	45		Fine Sand: 0.125 - 0.25 mm		
NA060025	ASSAY	Phe	Fine sandstone	spock marked sandstone bench	45		Fine Sand: 0.125 - 0.25 mm		
NA060026	ASSAY	Phe	Medium Sandstone	open rocky sandstone platform	35		Medium Sand: 0.25 - 0.5 mm		
NA060027	ASSAY	Phe	Fine sandstone	rocky area with minor cross beds	45		Fine Sand: 0.125 - 0.25 mm		
NA060028	ASSAY	Phe	Fine sandstone	flat bedded sandstone	40		Fine Sand: 0.125 - 0.25 mm		
NA060029	ASSAY	Pdo	Dolerite	fresh dolerite boulders	35				
NA060031	ASSAY	Pdo	Dolerite	small hill of dolerite	50				
NA060032	ASSAY	Pc	Pelitic schist	schistose rocks on side of escarpment	150				
NA060201	ASSAY	Phe	coarse grained sandstone	disrupted sandstone outcrop in base of valley, disruption may be due to dissolution of sandstone along stratigraphic horizon. Parallel fracturing possibly structural controlled, knobby karstic weathering of sandstone	45		0 Coarse Sand: 0.5 - 1.0 mm		disrupted bedding, dissolution brecciation and fracturing within stratigraphic unit of sandstone
NA060202	ASSAY	Phe	silicified shear zone (ex sdst)	silicified sheared outcrop makes up most of hill, vague fabric within sheared silicified (chalcedonic) rock, slightly micaceous along fabric, original protolith is indeterminate, possibly sandstone or basement.	60		0.21 Medium Sand: 0.25 - 0.5 mm		silicified sheared mylonitised rock, possibly ex- sandstone, small micaceous flakes throughout sample
NA060203	ASSAY	Phe	silicified granule-stone HE Bx	closely spaced fracturing and hematitic breccia within silicified granulestone	70		0 Granule: 2 - 4 mm		closely spaced fracturing and brecciation
NA060601	ASSAY	Phe	Ferricrete	Ferricrete cemented, poorly sorted pebbles and sandstone clasts.	100		Coarse Sand: 0.5 - 1.0 mm	150	
NA060602	ASSAY	Phe	Sandstone	Pebbly and poorly sorted sandstone. Sample taken in a set of hematite stained fractures.	70		Very Coarse Sand: 1 - 2 mm	30	

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NA060603	ASSAY	Phe	Sandstone	Sandstone beds dipped gently to near south. Friable orange-red sandstone with reddish-orange interstitial clay as a result of weathering.	45		Coarse Sand: 0.5 - 1.0 mm	6	
NA060604	ASSAY	Phe	Sandstone	Silicified quartz sandstone with clay matrix. Bleached colorless to weakly pink as a result of near surface weathering.	50		Coarse Sand: 0.5 - 1.0 mm	5	
NA060605	Mapping	Phe		No outcrop					
NA060606	ASSAY	Phe	Sandstone	Sample from fracture that locally runs up to 300 cps, potentially a thorium anomaly from airborne radiometric map. Coarse sandstone with trace matrix clay. Moderate quartz dissolution with grey weathered and euhedral specular hematite.			Coarse Sand: 0.5 - 1.0 mm	2	
NA060607	ASSAY	Phe	Sandstone	Sample from fracture that locally runs up to 300 cps, potentially a thorium anomaly from airborne radiometric map. Coarse sandstone with trace matrix clay. Moderate quartz dissolution with grey weathered specular hematite.			Coarse Sand: 0.5 - 1.0 mm	2	
NA060608	Mapping	Phe							
NA060609	ASSAY	Phe	Psammite	Subcropping psammite is very quartz rich with sparse white mica.			Coarse Sand: 0.5 - 1.0 mm	1	
NA060610	Mapping	Phe							
NA060611	ASSAY	Phe	ferricrete	Ferricrete			Very Coarse Sand: 1 - 2 mm	20	
NA060612	ASSAY	Phe	Sandstone	Quartz dissolved recessive sandstone from outcrop. Fracturing and vuggy quartz dissolution prominent in outcrop.			Coarse Sand: 0.5 - 1.0 mm	3	
NA060613	ASSAY	Phe		Poorly sorted quartz sandstone. Coarse to very coarse rock is pebbly and gritty.			Very Coarse Sand: 1 - 2 mm	30	
NA060614	ASSAY	Pxm		Foliated basement rock (qz-cy-he). Lack of mica in foliated rock due to paleoweathering.	170				
NA060615	ASSAY	Phe		Quartz dissolved porous rock with white (illite?) interstitial clay.			Coarse Sand: 0.5 - 1.0 mm	3	
NA060616	ASSAY	Phe		Slickenlineations sampled at fault zone with numerous planes of lineations. Reverse dip slip indicated with south slip up thrown. Fault orientation 40/160 the rake of lineations is 160 degrees. Local bedding is 6/080					
NA060617	ASSAY	Phe1	sandstone , minor floating pebbles	bleached , moderately silicified, layering appears folded -E-W axial trace, although also cross-bedding, slickolites on bedding plane surface	75		Coarse Sand: 0.5 - 1.0 mm		
NA060618	ASSAY	Phe	quartz breccia, locally micaceous	qz-cy-mi breccia fabric, ? basement or sandstone, dips mod-steep sth on southern end (JW took a sample for petrography) some arthy hematite in places, very knbbly qz bx	80				
NA060619	ASSAY	Phe	micaceous sdst layer, in sdst	appearnace elsewhere sandstone dipping gently south consistent with sdst throughout area, ~10 cm layer within sdst-conformable contains layer parallel disseminated white mica.	85		Pebble: 4 - 64 mm		
NA060620	ASSAY	Phe	brecciated sdst, hematitic matrix	sdst with prominent hematite matrix breccia ~1 m wide cutting through, other less well exposed examples in same area and up to 50 m south along same creek. matrix is sandy in part with angular fragments of silicified bleached sdst	55		Pebble: 4 - 64 mm	3	
NA060621	ASSAY	Phe	desilicified sdst	adjacent , locally silici vuggy desilicified, knobbly irregular	130		Medium Sand: 0.25 - 0.5 mm	1	

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NA060622	ASSAY	Phe	ferruginous desilicified sandstone	desilicified but with iron cement, low mound of broken ferruginous subcrop,	95		Medium Sand: 0.25 - 0.5 mm		
NA060623	ASSAY	Phe	ferruginous fracture in desilic ss	ferruginous rib with druse quartz on fracture parallel to orientation of the valley sandstone pavements in area	80		Medium Sand: 0.25 - 0.5 mm		
NA060624	Mapping	Phe1							
NA060625	ASSAY	Phe	silicified sdst	strongly silicified sdst forming bars in creek	40		Medium Sand: 0.25 - 0.5 mm		
NA060626	ASSAY	Phe	silicified sdst	strongly silicified sdst on creek edge becoming less silicified away from creek, jointed	35		Medium Sand: 0.25 - 0.5 mm		
NA060627	ASSAY	Phe	desilicified sdst	possible sinistral dilational jog in desilicified sdst in creek base	50		Medium Sand: 0.25 - 0.5 mm		
NA060628	Mapping	Cz	road sheeting	no outcrop hot-spot restricted to track thus assume wast from nabarlek, but no sign of typical cl-mi waste rock -all ferruginous	3300				waste rock from Nabarlek sheeting road
NA060800	Mapping	Pxm	Qtz-clay-feldspar-mica gneiss	Restricted basement outcrop in 345 trending valley that opens to the S at N-31. Outcrop is on E side of valley, forming an intensely foliated low rounded slab ~ 20 x 20 m. Quartz breccia outcrop starts about 5 m to the NE.		0.04			Restricted basement outcrop in 345 trending valley that opens to the S at N-31. Outcrop is on E side of valley, forming an intensely foliated low rounded slab ~ 20 x 20 m.
NA060801	ASSAY	Phe	Orange coarse-v. coarse ss	4 x 4 m low rounded outcrop in creek bed. Orange-yellow coarse-very coarse pebble-rich sandstone, otherwise as 802.	45		0 Very Coarse Sand: 1 - 2 mm		Sample from same outcrop 1.5 m E of NA060802. Orange coarse to v. coarse sandstone. Minor desilicification. Interstitial limonite specks. Sample is rotten/weathered from being in creek.
NA060802	ASSAY	Phe	coarse-granule SS	4 x 4 m low rounded outcrop in creek bed. Grey-white coarse-very coarse-granule pebble-rich sandstone. Pebbles up to 6 cm diameter, typically 1-2 cm, some mainly floating pebbles, some pebble beds up to several cm thick. Poorly bedded. Cross bedded.	45	0.03	Granule: 2 - 4 mm		Grey-white coarse sandstone with floating pebbles up to 6 cm diameter. Numerous joints in outcrop.
NA060803	ASSAY	Phe	Sandstone, coar-vcoar, li, qdz	Low rounded outcrop in creek bed. Locally elevated counts in many small outcrops in 10 m radius. Orange to OR coarse-vcoarse SS. Sample has competent, silicified, bleached/green outer skin and friable desilicified interior, due to weathering from creek.	240		0 Very Coarse Sand: 1 - 2 mm		Sample is rotten and weathered. Coarse-very coarse sandstone with interstitial brick red hematite, limonite and clay. Orange yellow sand grains.
NA060805	Mapping	Phe	Pebble-rich granulestone	Well bedded granulestone with abundant pebble beds and floating pebbles. Mixture of planar and meter scale crossbeds.	80				Grey-cream granulestone with abundant pebble beds. Moderate interstitial clay and minor hem. Well bedded with mixture of planar and meter scale crossbeds.
NA060806	Mapping	Phe	Granulestone with slickensides	Low outcrop of granulestone with E-W joints, and slicks on joints.	60		Granule: 2 - 4 mm		Granulestone outcrop with joints and slickensides on joint
NA060807	Mapping	Phe	Pebble rich granulestone	Well bedded granulestone. Bedding measurement taken from bottom surface of low overhang.	60		Granule: 2 - 4 mm		Well bedded pebble rich white-cream granulestone. Visited just for bedding measurement.
NA060808	Mapping	Pxm	Qtz-mica-cy schist	Basement is exposed as out/subcrop on the lower slopes of rise. Well foliated buff/red orange qtz-mica-clay-hem schist.	140				Basement outcrop on lower slopes of low rise capped with large sandstone boulders. Subcrop possibly starts on N side of E-W creek, evidenced by mica in regolith.
NA060809	Mapping	Pdo	QMPL/Surtec trench	Shallow trench/scrape in red clay soil after Pdo. Scattered Pdo float on ground.	50				Old QMPL/Surtec trench/scrape in red clay soil after Oenpelli dolerite. Dolerite float scattered around trench.
NA060810	Mapping	Pxm	Qtz-rich Qtz-mica-clay schist	Fire blackened flaggy outcrop/subcrop of dirty buff quartzite with minor mica and clay providing obvious foliation.	120	0			Basement exposure on top of hill ~200 m S of 809 and W of Myra Rd.

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NA060811	Mapping	Pdo	QMPL trench in pisoliths after pdo	Old QMPL/Surtec shallow trench/scrape exposing yellow-brown clay and pisoliths.	110				Old QMPL/Surtec shallow trench/scrape exposing yellow brown clay and pisoliths. Locally about 20 cps higher than BG between trench and road.
NA060812	Mapping		Dry blacksoil swamp	Dry blacksoil plain ~150 m W of base of escarpment.	130				Dry blacksoil plain ~150 m W of base of escarpment. Incised creek ~1.5-2 m deep runs through middle. Originally thought to be responsible for arad anomaly. Maybe 813 is?
NA060813	ASSAY	Pxm	Bleached mica clay schist	Outcrop exposed in sides and base of creek. Bleached, white/red-orange mica-clay schist. Well foliated with creulations.	200	0.12			Well foliated, bleached and crenulated mica-clay schist exposed in bottom and sides of exposed creek. Very weathered.
NA060814	ASSAY	Phe	Coarse ss, cy	Grey coarse sandstone with decimeter scale pebble beds and floating pebbles up to 5 cm. Crossbedded on ~ 10 cm scale. Probably about 20 m above unconformity.	110	0.02	Coarse Sand: 0.5 - 1.0 mm		Coarse cream/pale orange sandstone with moderate interstitial clay and hematite. Sample collected from dip in escarpment at top of creek from 813.
NA060815	ASSAY	Phe	med-coarse SS, cy, det mica	Flaggy pale orange sandstone emerging from sandy soil with abundant floating pebbles up to 5 cm. Has the appearance of being silicified. Also mm sized black spots on broken surface. Look metallic but do not give red streak, so not spec hem. Pyrite?	50	0.01	Coarse Sand: 0.5 - 1.0 mm		Pale orange med-coarse sandstone only ~5-10 meters above unconformity. Abundant floating pebbles up to 5 cm. Obvious detrital mica flakes up to 3 mm. Interstitial yellow-cream clay, when mixed with HED gives pale orange. Outcrop appears weakly silicified.
NA060816	ASSAY	Pxm	Qtz-cy-mica-hem schist	Purple grey well foliated qtz-clay-mica-hematite schist immediately below basal qtz boulder conglomerate.	120	0.01			Med grained qtz-clay-mica-hem schist from within 0.5 m of unconformity, and immediately overlain by qtz boulder conglomerate. Schist looks remarkably unaltered for so close to unconformity.
NA060817	ASSAY	Pxm	Clay hem qtz rock	Maroon clay hematite rock from ~ 50 cm below unconformity. Overlain by ~50 cm of rock similar to 816 and then qtz boulder conglomerate. Very weathered and friable. White clay coats coats some fracture surfaces. Yellowish sericite in places.	220	0.11			Clay-hem-qtz rock from about 50 m below unconformity, beneath small interval of rock similar to 817. Represents "red zone"?