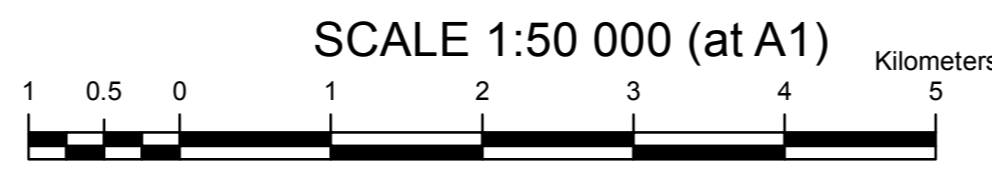
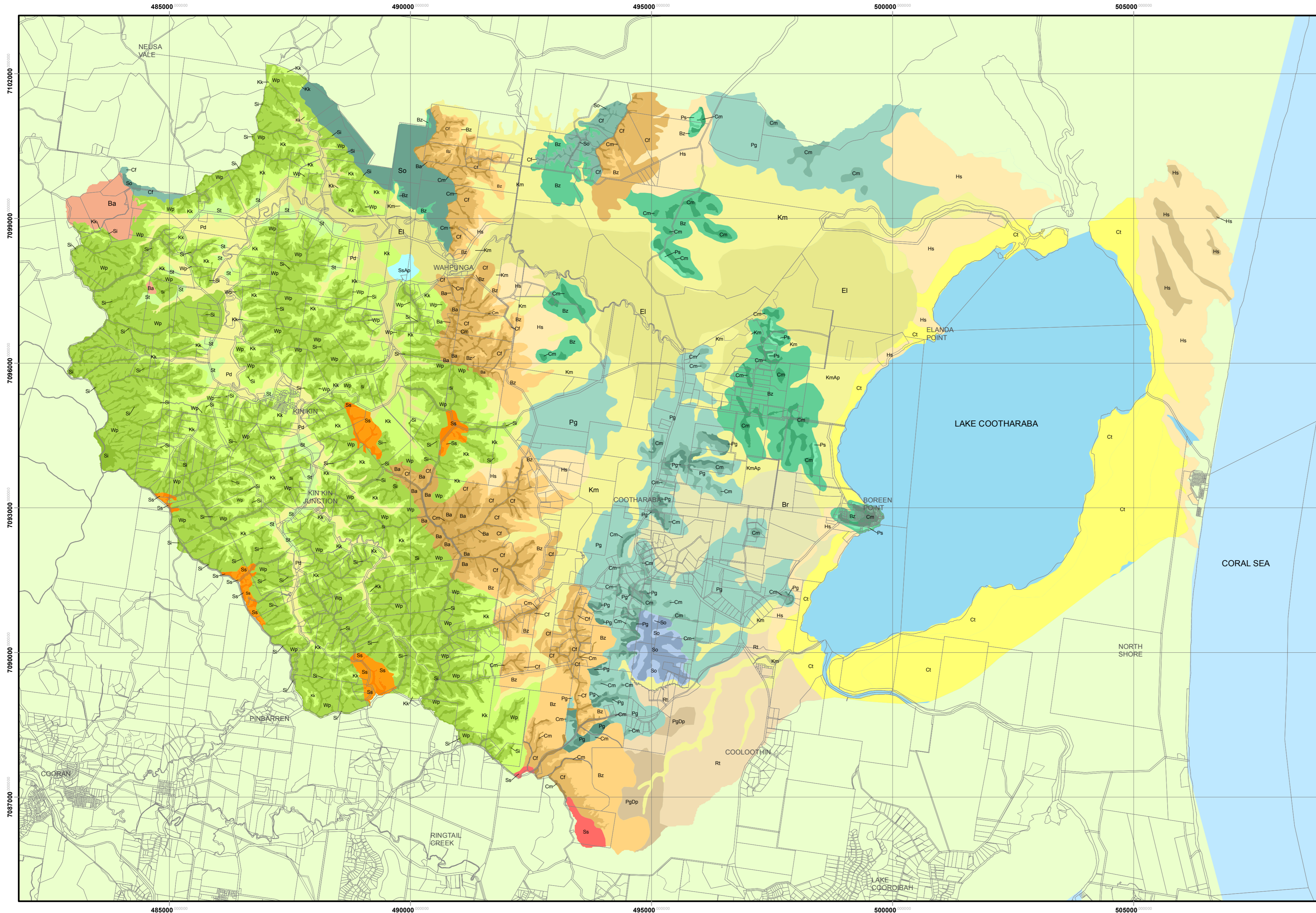


LAKE COOTHARABA CATCHMENT

SOILS



UNIVERSAL TRANSVERSE MERCATOR PROJECTION (Zone 56)

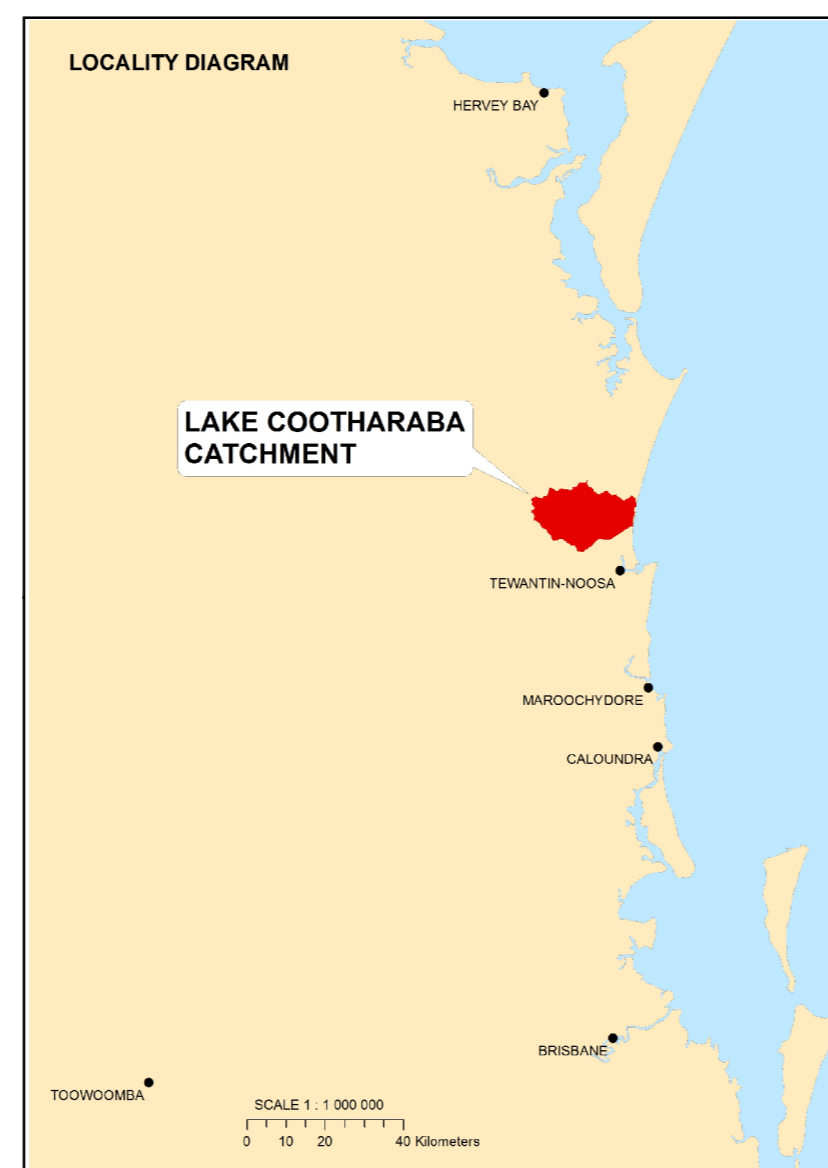
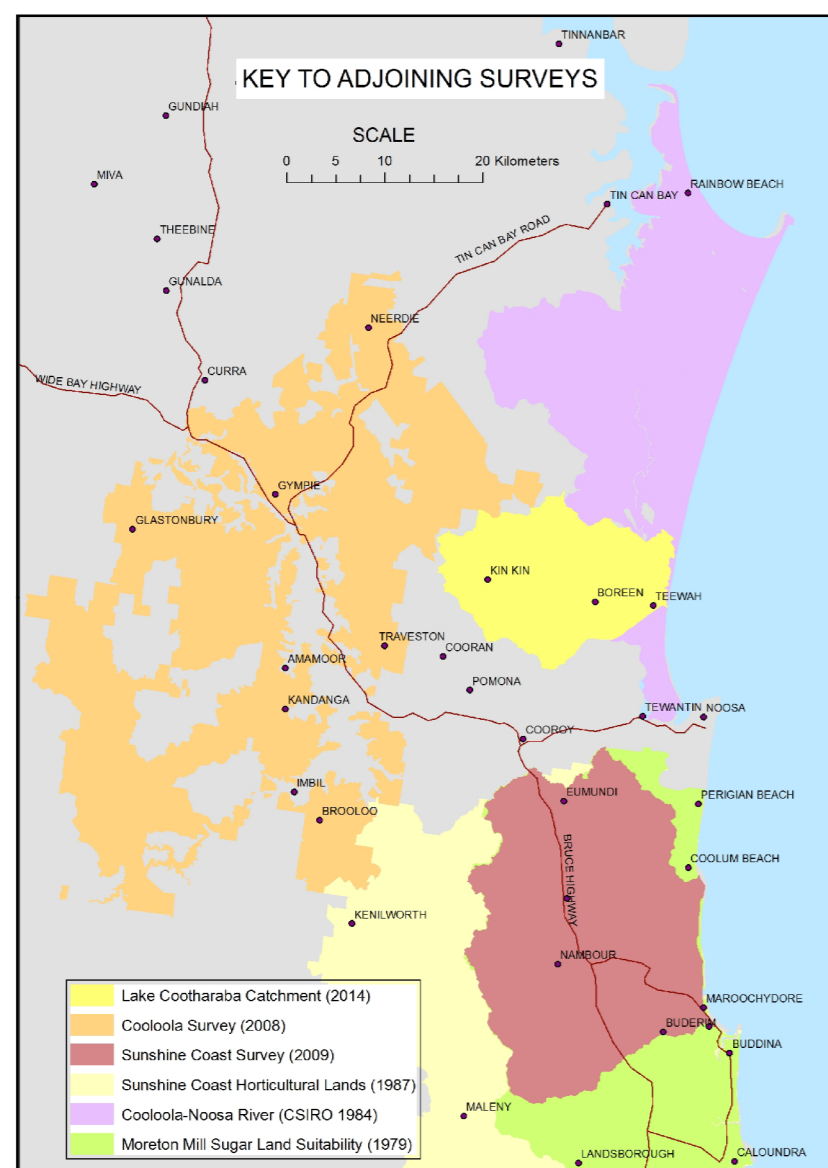


Mapping Unit	Major attributes of dominant soils	Australian Soil Class	Area (ha)
COASTAL DUNES AND SWALES			
Hs	Deep to very deep, uniform soils subject to short to long term saturation. Black or grey sand to Sandy clay loam overlying organic grey, brown and black sand to clayey sand Bh or Bhs horizons.	Aquic Podsol Semi-Aquic Podsol	644 107
BEACH RIDGES			
Hs	Deep to very deep, uniform soils subject to short to long term saturation. Black or grey sand to Sandy clay loam overlying organic grey, brown and black sand to clayey sand Bh or Bhs horizons.	Aquic Podsol Semi-Aquic Podsol	683
QUATERNARY ALLUVIUM - STREAM ALLUVIA			
Pd	Phyllite derived, deep to very deep, brown, non-cracking gradational soils. Brown and grey clay loams to light medium clays (often silty) overlying frequently mottled, red, brown or yellow light to medium heavy clays.	Brown Dermosol Red Dermosol Yellow Dermosol	518
Km	Sandstone derived deep to very deep, grey (rarely brown) soils often with buried horizons at depth. Black, brown and grey loamy sand to light clays overlying brown or grey sandy clay loam to medium heavy clay.	Grey/Brown Dermosol Grey Sodosol Redoxic Hydrosol	2 040
KmAp	Acidic deep to very deep, grey and black, gradational or texture contrast soils often with buried horizons at depth. Black or grey loamy sand to light medium clays (often silty or sandy). Includes many acid sulfate soils.	Grey Dermosol Grey/Black Vertosol Grey Kandosol/Kurosol Redoxic Hydrosol	253
Br	Strongly acidic deep to very deep, grey, gradational or texture contrast soils frequently with at least one buried horizon at depth. Grey or black clay loam to light medium clay overlying grey light to medium clay. Includes many acid sulfate soils.	Grey Vertosol Aquic Vertosol Redoxic Hydrosol	506
EI	Acidic to neutral alluvial soils. Deep to very deep, brown, yellow and grey gradational (non-cracking) soils. Black, brown or grey sandy clay loam to light clay (often silty) overlying grey, brown or yellow light to medium heavy clay.	Yellow Dermosol Yellow Dermosol Brown Dermosol Redoxic Hydrosol	2 046
QUATERNARY ALLUVIUM - ACTIVE AND EXTRA-TIDAL ALLUVIA			
Ct	Organic, wet, acidic, deep to very deep, black or grey sandy uniform or gradational soils subject to seasonal or permanent inundation. Frequently with underlying buried horizons.	Oxyaquic Hydrosol Redoxic Hydrosol Extra-tidal Hydrosol	1 810
HILLS AND RISES ON MYRTLE CREEK SANDSTONE - NORTHERN AND EASTERN FACING SLOPES			
Cm	Moderately deep to very deep, mottled, brown and grey, texture contrast soils. Black, brown and grey loamy sands to light clays overlying frequently mottled, acid brown or grey sandy light clay to medium heavy clays on sandstone.	Brown Kurosol Grey Kurosol Brown Sodosol	255
Ba	Very shallow to shallow red and brown, texture contrast and gradational soils on steep slopes of Myrtle Creek sandstone.	Leptic Tenosol Red/Brown Dermosol Red Kurosol	151
Cf	Deep to very deep, red or brown gradational soils. Red, black, brown and grey sandy loam to sandy clay loam overlying occasionally mottled red or brown sandy loam to light medium clay on Myrtle Creek sandstone. Lower and foot slopes may overlie unconsolidated sediments.	Red Kandosol Brown Kandosol Brown Dermosol	853
Bz	Moderately deep to very deep, yellow or grey texture contrast (rarely gradational) soils. Black, brown or grey sand to clay loam overlying mottled (sometimes sodic) grey or yellow light to medium heavy clay over sandstone. Lower and foot slopes may overlie unconsolidated sediments.	Yellow/Grey Kurosol Grey Dermosol Redoxic Hydrosol	906
Hs	Deep to very deep, uniform soils subject to short to long term saturation. Black or grey sand to Sandy clay loam overlying organic grey, brown and black sand to clayey sand Bh or Bhs horizons.	Aquic Podsol Semi-aquic Podsol	347
HILLS AND RISES ON MYRTLE CREEK SANDSTONE - SOUTHERN AND WESTERN FACING SLOPES			
So	Deep to very deep non-cracking, red and brown gradational soils. Brown light to light medium clays overlying rarely mottled red light medium to medium heavy clays on sandstone.	Red Dermosol Brown Dermosol	310
Cf	Deep to very deep, red or brown gradational soils. Red, black, brown and grey sandy loam to sandy clay loam overlying occasionally mottled red or brown sandy loam to light medium clay on Myrtle Creek sandstone. Lower and foot slopes may overlie unconsolidated sediments.	Red Kandosol Brown Kandosol Brown Dermosol	96
Bz	Deep or very deep, brown texture contrast soils. Black and grey silty or sandy loam overlying acidic, mottled brown and grey light to medium heavy clay over weathered Myrtle Creek sandstone.	Brown Kurosol Grey Kurosol	108
MYRTLE CREEK SANDSTONES ON RISES			
Cm	Moderately deep to deep, non-sodic, brown (sometimes grey) non-gravelly to moderately gravelly texture contrast soils. Loamy sand to sandy clay loam A horizons overlying sandy light medium to medium heavy clays underlain by weathering Myrtle Creek Sandstone.	Brown Kurosol Grey Kurosol	202
Ps	Deep to very deep, non-sodic, brown (occasionally red) non-gravelly to gravelly gradational and texture contrast soils. Sand to sandy clay loam A horizons overlying sandy loam to sandy medium heavy clay B horizons underlain by weathering Myrtle Creek Sandstone.	Brown Kurosol	31
Bz	Deep or very deep, brown texture contrast soils. Black and grey silty or sandy loam overlying acidic, mottled brown and grey light to medium heavy clay over weathered Myrtle Creek sandstone.	Brown Kurosol Grey Kurosol	633
SOILS ON TIARO COAL MEASURES - DEEPLY WEATHERED MUDSTONE/SILTSTONE			
So	Deep, non-cracking, red gradational soils. Brown light to light medium clays overlying rarely mottled red light medium to medium heavy clays on weathered mudstone or siltstone on crests and ridges.	Red Dermosol Brown Dermosol	87
So	Very deep, non-cracking, red and brown gradational soils. Brown light to light medium clays overlying rarely mottled red light medium to medium heavy clays on weathered mudstone or siltstone on slopes.	Brown Dermosol Red Dermosol	49
SOILS ON TIARO COAL MEASURES - FINE SANDSTONES			
Pg	Deep to very deep, brown and grey, texture contrast and gradational soils. Black and grey sandy loams to light clays overlying frequently mottled brown or grey sandy clay loam to medium heavy clays on flats and gently inclined slopes.	Brown Kurosol Grey Kurosol Brown Dermosol Grey Dermosol	1 893
Pg	Deep to very deep, brown, texture contrast and gradational soils. Black and grey sandy loams to light clays overlying frequently mottled brown sandy clay loam to medium heavy clays on slopes of rises.	Brown Kurosol Brown Dermosol	95
Cm	Moderately deep to very deep, mottled, brown and grey, texture contrast soils. Black, brown and grey loamy sands to light clays overlying frequently mottled, acid brown or grey sandy light clay to medium heavy clays on sandstone.	Brown Kurosol Grey Kurosol	207
SOILS ON TIARO COAL MEASURES - UNIFORM SANDY SOILS			
Hs	Deep to very deep, uniform soils subject to short to long term saturation. Black or grey sand to Sandy clay loam overlying organic grey, brown and black sand to clayey sand Bh or Bhs horizons.	Aquic Podsol Semi-aquic Podsol	75
DEEPLY WEATHERED MYRTLE CREEK SANDSTONES AND DEEPLY WEATHERED TIARO COAL MEASURES			
PgDp	Strongly acidic, deep to very deep, brown and yellow, gradational soils. Black clay loams to light clays overlying mottled brown or yellow light to medium heavy clays over deeper red and grey clays on deeply weathered sandstone or mudstone.	Brown Dermosol Yellow Dermosol	136
RT	Deep, sodic, brown or grey, texture contrast soils. Black or grey sandy loams to clay loams overlying frequently mottled brown and grey sandy clay loams to heavy clays on deeply weathered fine sandstone and mudstone.	Grey Kurosol Brown Kurosol Grey Sodosol	542
SOILS ON TRIASSIC KIN KIN BEDS (PHYLLITES)			
Si	Shallow to moderately deep, brown and red, gradational soils. Brown, black and grey silty clay loams, clay loams and light clays overlying light to medium clays (occasionally mottled) on weathered and non-weathered phyllite.	Brown Dermosol Red Dermosol Leptic Tenosol	1 201
Wp	Moderately deep to deep, red, gradational soils. Brown or red clay loams to light medium clays overlying haplic red and brown light to medium clays with an acidic trend over phyllite.	Red Dermosol	3 131
Kk	Moderately deep to deep, brown and red, gradational soils. Brown and grey clay loams, light clays and light medium clays overlying frequently mottled light to medium clays on weathered and non-weathered phyllite.	Brown Dermosol Red Dermosol	1 782
St	Deep to very deep, red, gradational soils. Brown clay loams to light medium clays (sometimes sandy) overlying frequently mottled red and brown light to medium clays on weathered and non-weathered phyllite.	Red Dermosol	181
GRANITES ON STEEP UPPER SLOPES AND CRESTS			
Ba	Very shallow to shallow red and brown, texture contrast and gradational soils on steep slopes of Woodum granites.	Red Dermosol Brown Dermosol	135
SOILS ON RHYOLITIC TUFF			
SAp	Moderately deep to very deep, grey, gradational soils. Black fine sandy clay loams to sandy clay loams (rarely light clays) overlying acidic, frequently mottled, grey sandy clay loams and sandy light clays to medium clays on weathered parent material at depth.	Grey Dermosol	24
SOILS ON NEOGENE RHYOLITES			
Ss	Shallow, soils. Grey clay loam overlying rhyolite rock.	Leptic Tenosol	41
SOILS ON NEOGENE BASALT			
Ss	Moderately deep to deep, black soils on basalt. Black and grey light to medium clay overlying black medium heavy to heavy clays.	Black Dermosol	75
Ss	Deep to very deep, brown and grey gradational soils on weathered and non-weathered basalt (rarely andesite, tuff or rhyolite). Black and grey light to medium clay overlying grey or brown medium heavy to heavy clays.	Brown Dermosol Grey Dermosol Redoxic Hydrosol	96



Coordinate System: GDA 1994 MGA Zone 56
 Projection: Transverse Mercator
 Datum: GDA 1994
 False Easting: 500,000,000
 False Northing: 10,000,000,000
 Central Meridian: 153,0000
 Scale Factor: 0.9996
 Latitude Of Origin: 0.0000
 Units: Meter

LAKE COOTHARABA SOILS
 DNRM Ref No. NOOP-1S-A1



- MAPPING UNIT CODE EXPLANATION**
- The division of soil types is based on the dominant Australian Soil Classification Soil Order (Isbell 2002) within each Unique Mapping Area (UMA).
 - Sub-dominant soils exist in the majority of UMAs.
 - Variants and phases of soil orders may occur e.g. Pangola Deeply Weathered Phase (PgDp) and Simpson Acidic Phase (SAp). These are described by the major attributes of the soil type modified by the description of the variant or phase concerned.
 - Where UMA's (soil units) adjoin and have the same code, separation is because of differing attributes e.g. slope, landscape position, parent material.

INTENSITY STATEMENT
 This is a medium intensity soil survey. It is based on an observational density of the order of one observation to an area of 90 hectares (Scale 1:50 000).

Survey and cartography completed by Department of Natural Resources and Mines (DNRM) staff based in Nambour and Bundaberg.

Base map is Digital Cadastral Data Base, DNRM 2014.
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