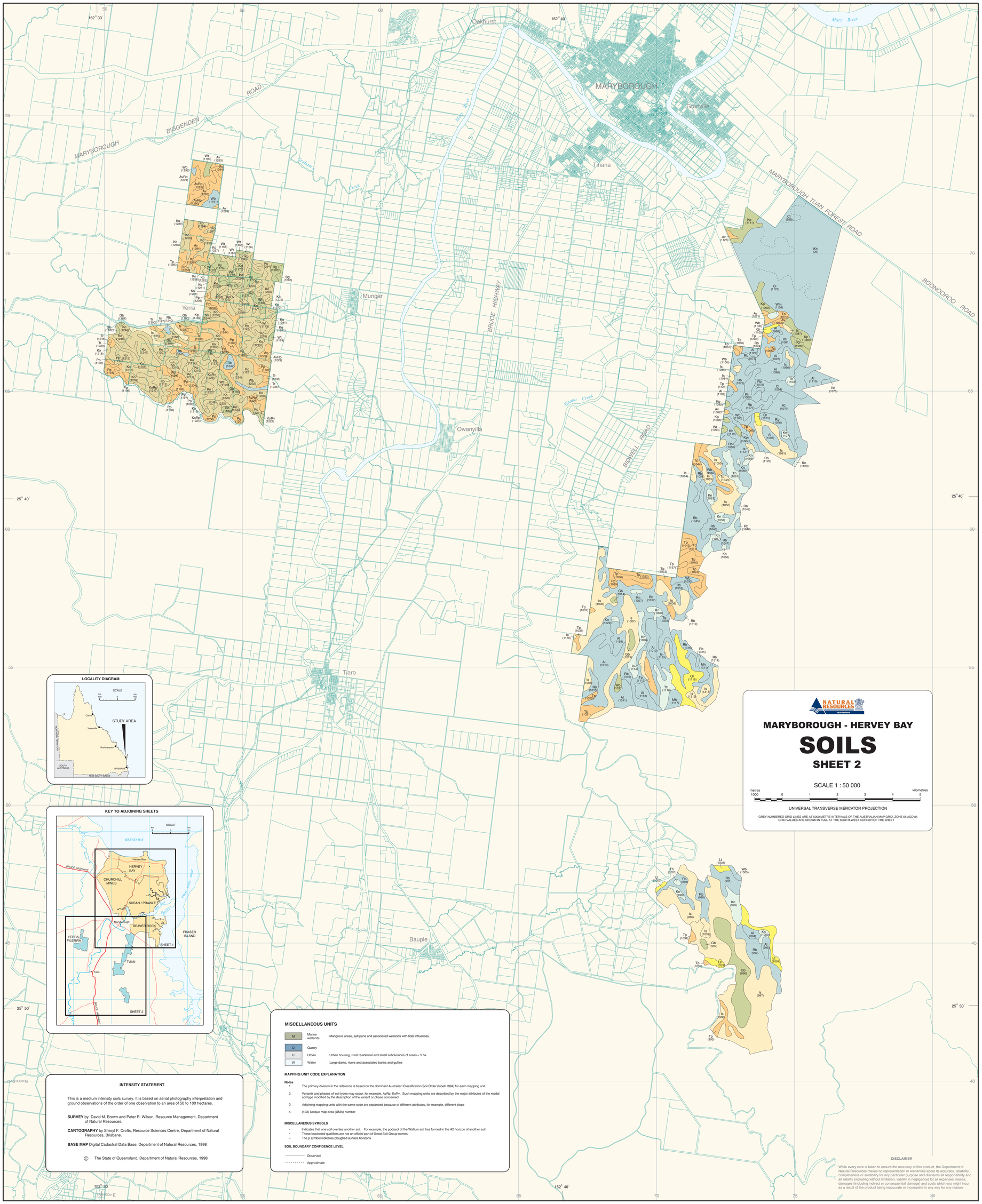

INTENSITY STATEMENT

This is a medium intensity soils survey. It is based on aerial photography interpretation and ground observations of the order of one observation to an area of 50 to 100 hectares.

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BASE MAP Digital Cadastral Data Base, Department of Natural Resources, 1998

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MISCELLANEOUS UNITS

M	Marine wetlands	Mangrove areas, salt pans and associated wetlands with tidal influences.
Q	Quarry	
U	Urban	Urban housing, rural residential and small subdivisions of areas < 5 ha.
W	Water	Large dams, rivers and associated banks and gullies

MAPPING UNIT CODE EXPLANATION

Notes

1. The primary division in the reference is based on the dominant Australian Classification Soil Order (Isbell 1994) for each mapping unit.
2. Variants and phases of soil types may occur, for example, AvRp, KoRv. Such mapping units are described by the major attributes of the modal soil type modified by the description of the variant or phase concerned.
3. Adjoining mapping units with the same code are separated because of different attributes, for example, different slope
4. (123) Unique map area (UMA) number

MISCELLANEOUS SYMBOLS

- Indicates that one soil overlies another soil. For example, the podosol of the Wallum soil has formed in the A2 horizon of another soil.
- These bracketed qualifiers are not an official part of Great Soil Group names.
- The p symbol indicates ploughed surface horizons

SOIL BOUNDARY CONFIDENCE LEVEL

——— Observed

- - - - - - - - Approximate

DISCLAIMER

While every care is taken to ensure the accuracy of this product, the Department of Natural Resources makes no representation or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way for any reason.

REFERENCE

Mapping Unit		Major attributes of Dominant soil	Australian Classification	Great soil Group	Principle Profile Form	Area (ha)
PODOSOLS						
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS						
Kn	Kinkuna	Black or grey sand surface over a conspicuously bleached A2 horizons (0.3 to 0.75m) over a brown ortstein or black coffee rock pan (0.45 to 1m) over grey sand.	Semiaquic Podosol Aquic Podosol	Podzol	Uc2.32 Uc2.33	415
Th	Theodolite	Grey sand surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) over a brown sand B2 horizon (0.35 to 0.65m) over a bleached sand (0.75 to 1.1m) over an acid, mottled, structured, grey sandy light clay to sandy medium clay.	Aquic Podosol" Redoxic Hydrosol	Podzol	Uc2.21 Uc2.23 Uc2.32 Uc2.34	134
Wm	Wallum	Grey or black sand surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) over a brown sand B2 horizon (0.35 to 0.8m) over a bleached sand (0.65 to 1.1m) over an acid, mottled, massive grey sandy clay loam to sandy light clay.	Aquic Podosol" Redoxic Hydrosol	(Rudimentary)" podzol Podzol	Uc2.21 Uc2.23 Uc2.22 Uc2.32	8
BEACH RIDGES						
Br	Burrum	Black sand surface over a conspicuously bleached A2 horizon (1.1 to 2m) over a black coffee rock pan.	Aquic Podosol	Podzol	Uc2.33	615
To	Toogum	Grey or black sand over a conspicuously bleached A2 horizon (0.65 to 0.85) over an acid to neutral, brown or brown mottled grey sand.	Aquic Podosol	Podzol	Uc2.21 Uc2.22	147
VERTOSOLS						
HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS						
Dg	Duingal	Black light clay to light medium clay surface over a sporadically bleached A2 horizon (0.05 to 0.15m) over an acid, mottled, grey or occasionally brown medium clay to heavy clay (1+m) over weathered rock.	Grey Vertosol Brown Vertosol	(Bleached)" grey clay	Ug3.2	23
HYDROSOLS						
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS						
Al	Alloway	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 0.8m) over an acid, mottled, non-sodic, grey light clay to medium clay.	Redoxic Hydrosol Grey Dermosol	Gleyed podzolic soil	Gn3.04 Dg2.41 Dq4.41 Dy3.41	1 030
Mh	Mahogany	Grey or black sand to sandy loam surface over a conspicuously bleached A2 horizon (0.35 to 0.8m) over an acid, mottled, massive, grey sandy clay loam to sandy light clay.	Redoxic Hydrosol Grey Kandosol	No suitable group	Gn2.94 Dq4.81 Dg 2.81	71
Rb	Robur	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.5 to 1.0m) over an acid, mottled, sodic, grey sandy light clay to heavy clay.	Redoxic Hydrosol Grey Sodosol	Soloth Solodic soil	Dy3.41 Dg2.41 Dg2.42	10 086
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS						
Cl	Clayton	Grey fine sandy loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.3 to 0.6m) over an acid to neutral, mottled, non-sodic, grey or occasionally yellow light clay to medium clay.	Redoxic Hydrosol	Gleyed podzolic soil No suitable group	Gn3.04 Dy3.42 Dy3.41 Gn3.05	1 422
Kh	Kalah	Grey fine sandy loam to loam fine sandy surface over a conspicuously bleached A2 horizon (0.35 to 0.7m) over an acid to neutral, mottled, sodic, grey light medium clay to heavy clay.	Redoxic Hydrosol	Soloth Solodic soil	Dy3.41 Dy3.43 Dg2.41 Dy3.42 Dg2.42	6 609
Kl	Kolbore	Grey loamy sand to loam fine sandy surface over a conspicuously bleached A2 horizon (0.3 to 0.8m) over an acid to alkaline, mottled, sodic, grey sandy light clay to medium clay (0.5 to 1.3m) over a very hard, brittle, mottled duripan.	Salic Hydrosol Redoxic Hydrosol	Solodic soil Soloth	Dy3.42 Dy3.41 Dg2.41 Dg2.42 Dy3.43	997
ALLUVIAL PLAINS OF THE MARY RIVER						
Bv	Beaver	Black loam to clay loam surface (0.05 to 0.2m) over an acid, black or dark grey light medium clay to medium clay (0.75 to 0.9m) over an acid, mottled, grey medium clay to heavy clay.	Redoxic Hydrosol	Humic gley	Dd4.11 Dy5.11	79
Wk	Walker	Black or occasionally grey silty clay loam to light medium clay surface (0.05 to 0.25m) over an acid to neutral, mottled, grey or black light medium clay to heavy clay (0.4 to 1.2m) over an acid to neutral mottled, grey medium clay to heavy clay.	Redoxic Hydrosol Black Dermosol	Humic gley	Gn3.91 Gn3.92 Uf6.41	105
ALLUVIAL PLAINS OF THE LOCAL CREEKS AND RIVERS						
Wb	Woober	Black or grey clay loam, silty clay loam, silty clay to light medium clay surface over a bleached A2 horizon (0.2 to 0.3m) over an acid, mottled, grey light medium clay to heavy clay.	Redoxic Hydrosol	No suitable group	Uf2 Uf3 Gn3.04 Gn3.05	6 902
MARINE PLAINS						
Fd	Fairydale	Black clay loam to light clay surface (0.15 to 0.4m) over an acid, mottled, grey light clay to medium clay (0.8 to 1.2m) often with jarosite over an acid to neutral, often mottled, grey or brown coarse sand to sandy clay loam D horizons to 1.5m.	Redoxic Hydrosol	Humic gley	Uf6.41 Gn3.21	370
Jr	Jaro	Black loam to light clay surface (0.05 to 0.25m) over an acid, mottled, grey light medium clay to heavy clay (0.6 to 1.0m) over an acid, grey medium clay to heavy clay with jarosite.	Redoxic Hydrosol Extratidal Hydrosol	Humic gley	Uf6.42 Dy5.11 Uf6.41 Gn3.90	2 520
Mm	Maroom	Black or grey sandy loam to sandy clay loam surface over a conspicuously or sporadically bleached A2 horizon (0.15 to 0.6m) over an acidic to neutral, mottled, grey or brown or occasionally black light clay to medium heavy clay becoming paler at depth.	Redoxic Hydrosol	Soloth Solodic soil	Dy3.41 Dy3.42 Dq2.31	813
Tn	Tandora	Black clay loam to light medium clay surface (0.05 to 0.25m) over an acid to neutral, mottled, grey medium clay to heavy clay.	Redoxic Hydrosol	Humic gley	Uf6.41 Dy5.11 Dy3.11 Gn3.91	3 158
KUROSOLS						
HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS						
Ko	Kolan	Black or grey loam fine sandy to clay loam fine sandy surface over a conspicuously or sporadically bleached A2 horizon (0.15 to 0.3m) over a strongly acid, mottled, sodic, grey or brown medium clay to heavy clay (0.5+m) over weathered rock.	Grey Kurosol Brown Kurosol	Soloth	Dy3.41	2 423
KoRp	Kolan rocky phase	As above with > 20% rock fragments in the surface.	Grey Kurosol Brown Kurosol	Soloth	Dy3.41	37
KoRv	Kolan red variant	Black or grey loam fine sandy to clay loam fine sandy surface over a conspicuously or sporadically bleached A2 horizon (0.15 to 0.3m) over a strongly acid, mottled, sodic, red medium clay to heavy clay (0.5+m) over weathered rock.	Red Kurosol	Soloth	Dr3.41	117
SODOSOLS						
HILLSLOPES ON MODERATELY WEATHERED SEDIMENTARY ROCKS						
Tr	Tiroan	Black or grey sandy loam to fine sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) over an acid, mottled, grey sandy medium clay (0.45 to 1.2m) over weathered rock.	Grey Sodosol	Soloth Solodic soil	Dy3.41 Dy3.42	195
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS						
Av	Avondale	Grey or black fine sandy loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.35m) with ferruginous nodules over an acid, mottled, grey or occasionally brown medium clay to heavy clay (0.35 to 1.5m) over weathered rock.	Grey Sodosol Grey Kurosol Brown Sodosol Brown Kurosol Redoxic Hydrosol	Soloth	Dy3.41	12 698
AvRp	Avondale Rocky phase	As above with >20% rock fragments throughout the profile or rock within 0.3m of the surface.	Grey Sodosol	Soloth	Dy3.41	114
Tp	Turpin	Grey or occasionally black loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) with ferruginous nodules over an acid, mottled, grey or brown medium clay to heavy clay (0.4 to 1.5m) over weathered rock.	Grey Sodosol Grey Kurosol Brown Sodosol Brown Kurosol Redoxic Hydrosol	Soloth	Dy3.41 Dq2.41	3 065
ALLUVIAL PLAINS OF THE MARY RIVER						
Bt	Butcher	Black or grey loam fine sandy to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) over an acid to alkaline, mottled, grey or brown light medium clay to heavy clay.	Grey Sodosol Brown Sodosol	Soloth Solodic soil	Dy3.41 Dy3.42 Dy3.43	897
ALLUVIAL PLAINS OF THE LOCAL CREEKS AND RIVERS						
Pp	Peep	Grey or black fine sandy loam to clay loam fine sandy and silty clay loam surface over a conspicuously bleached A2 horizon (0.15 to 0.45m) over an acid to alkaline, mottled, grey or brown medium clay.	Grey Sodosol Grey Kurosol Brown Sodosol	Solodic soil Soloth	Dy3.42 Dy3.41 Dy3.43	272
CHROMOSOLS						
HILLSLOPES AND PLAINS ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS						
Is	Isis	Grey or occasionally black sandy loam surface over a conspicuously bleached A2 horizon (0.3 to 0.7m) over an acid, mottled, yellow or brown light clay to medium clay.	Yellow Chromosol Yellow Dermosol Brown Chromosol Brown Dermosol	Yellow podzolic soil	Dy3.41 Gn3.84	1 962
DERMOSOLS						
HILLSLOPES ON BASALTS						
Be	Berren	Black or brown light clay surface over a neutral, brown light medium clay to medium clay (0.3 to 0.65m) over weathered basalt, > 20% basalt fragments throughout the profile.	Brown Dermosol	Prairie soil	Uf6.31	138
Dr	Dundowran	Black light medium clay surface over a neutral to alkaline, mottled, grey or black medium clay to heavy clay (0.7+m) with manganese nodules over weathered basalt.	Grey Dermosol Black Dermosol	Prairie soil Chernozem	Uf6.41 Uf6.42	30
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS						
Gb	Gooburrum	Brown or black loamy sand to sandy clay loam surface over an acid to neutral, red clay loam to light clay.	Red Dermosol Red Chromosol	Red podzolic soil	Gn3.11p[1] Gn3.12p[1] Dr2.11p[1] Um6.30p[1] Gn3.14	239
Md	Meadowvale	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.7m) gradually changing to a mottled, massive, yellow or brown sandy light clay gradually changing to an acid, mottled, structured, yellow or brown light clay to medium clay.	Yellow Dermosol Brown Dermosol	Yellow podzolic soil	Gn3.84 Gn3.04	195
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS						
AvYv	Avondale Yellow Variant	Grey fine sandy loam to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) with ferruginous nodules over an acid, mottled, yellow light clay to light medium clay (0.4 to 0.6m) over an acid, mottled, grey medium clay to heavy clay.	Yellow Dermosol	No suitable group, affinities with Soloth	Gn3.04	48
Blg	Bungadoo	Black or grey clay loam surface over a conspicuously bleached A2 horizon (0.2 to 0.55m) over a strongly acid, mottled, brown, grey or yellow medium clay (0.75 to 0.9m) over weathered silicified rock, >20% silicified rock fragments throughout the profile.	Brown Dermosol Grey Dermosol Yellow Dermosol	No suitable group, affinities with Soloth	Gn3.04 Gn3.84	2 333
Cr	Craignish	Black or grey loam fine sandy to light clay surface over a conspicuously or sporadically bleached A2 (0.1 to 0.35m) over a neutral to alkaline, grey or brown medium clay to heavy clay over weathered rock.	Grey Dermosol Brown Dermosol	Solodic soil No suitable group	Dy3.33 Dy3.32 Uf3 Gn3.06 Gn3.03	546
Kp	Kepnock	Grey or black loam fine sandy to clay loam surface over a bleached A2 horizon (0.3 to 0.45m) over an acid, mottled, yellow or brown light clay to medium clay with ferruginous nodules.	Yellow Dermosol Brown Dermosol Yellow Chromosol Brown Chromosol	Yellow podzolic soil	Gn3.84 Gn3.81 Dy3.41	1 999
Wo	Woco	Grey or black loam fine sandy to clay loam surface over a conspicuously bleached A2 horizon (0.2 to 0.4m) over a strongly acid, mottled, sodic, grey or brown light clay to medium clay with ferruginous nodules.	Grey Dermosol Brown Dermosol Grey Kurosol Brown Kurosol Redoxic Hydrosol	Soloth	Gn3.04 Dy3.41	1 771
Wr	Woolmer	Grey fine sandy loam to loam fine sandy surface over a bleached A2 horizon (0.15 to 0.35m) gradually changing to a mottled, massive, yellow or brown sandy clay loam to clay loam fine sandy gradually changing to an acid, mottled, structured, yellow or brown light clay to medium clay with ferruginous nodules.	Yellow Dermosol Brown Dermosol	Yellow podzolic soil	Gn3.84 Gn3.81	17
Wt	Watalgan	Black or brown clay loam surface over an acid, red light clay to medium clay with ferruginous nodules.	Red Dermosol	Red podzolic soil	Gn3.14 Gn3.11p[1] Dr2.21	371
ALLUVIAL PLAINS OF THE MARY RIVER						
Ad	Aldershot	Grey, black or brown fine sandy loam to fine sandy clay loam surface (0.1 to 0.35m) over a neutral, red light clay to light medium clay frequently with manganiferous nodules.	Red Dermosol	Red brown earth	Dr2.12 Gn3.22 Gn3.72	76
Gr	Granville	Black or grey light clay to light medium clay surface over a sporadically bleached A2 horizon (0.1 to 0.25m) over an acid, mottled, grey or brown medium clay to heavy clay.	Grey Dermosol Brown Dermosol	No suitable group, affinities with grey clay	Uf3	1 569
My	Mary	Black or brown silty clay loam to silty clay surface (0.1 to 0.25m) over an acid to neutral, brown light clay to medium clay.	Brown Dermosol	Brown earth	Gn3.21 Uf6.33	216
KANDOSOLS						
PLAINS AND HILLSLOPES ON DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS						
Qr	Quart	Grey loamy sand to sandy loam surface over an acid, mottled, yellow sandy clay loam to clay loam.	Yellow Kandosol	Yellow earth	Gn2.74 Gn2.61p[1]	147
ALLUVIAL PLAINS OF THE LOCAL CREEKS AND RIVERS						
Lt	Littabella	Black or grey sandy loam to loam fine sandy surface over an acid to neutral, yellow, grey or red sandy loam to clay loam sandy.	Yellow Kandosol Grey Kandosol Red Kandosol Orthic Tenosol	Yellow earth No suitable group Earthy sand	Um5.52 Um4.23 Gn2.71 Gn2.94 Uc5.22	71
TENOSOLS						
BEACH RIDGES						
Dm	Diamond	Black sand to loamy sand surface over a frequently conspicuously bleached A2 horizon (0.5 to 1.0m) over an acid, brown, yellow or occasionally red sand to loamy sand with ferruginous nodules.	Bleached Tenosol Orthic Tenosol	Earthy sand	Uc2.22 Uc2.21 Uc4.21 Uc4.24	244

MARYBOROUGH - HERVEY BAY
SOILS SHEET 2
DNR Ref. No. 98-MHB-I-P3214