



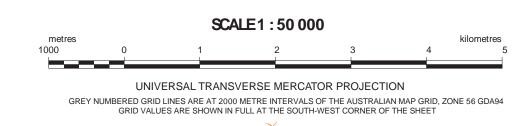






Major Attributes of Dominant soil

## **MARYBOROUGH - TIARO** SOILS



						REFE
Mapping Unit PODOSOL	.s	Major Attributes of Dominant soil	Australian Classification	Great Soil Group	Principle Profile Form	Area (ha)
Kn	HILLSLOPES ON Kinkuna	DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS  Black to grey sand surface over a conspicuously bleached A2 horizons (0.3 to 0.75m) over a brown ortstein or black coffee rock	Semiaquic Podosol Aquic Podosol	Podzol	Uc2.32 Uc2.33	18
Th	Theodolite	pan (0.45 to 1m) over grey sand.  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) which occasionally forms a orstein pan over a bleached sand (0.75 to 1.1m) over an acid, mottled, structured, grey sandy light clay to sandy medium clay.	Aquic Podosol/ <sup>+</sup> Redoxic Hydrosol	Podzol	Uc2.21 Uc2.23 Uc2.32 Uc2.34	65
VERTOSO	LS AINS AND SWAN	MPS				
Pe	Pelion	Root mat (O1 horizon) (in undisturbed areas) overlying a black to grey light medium to medium clay surface (0.12 to 0.23m) over a neutral to alkaline, black, brown to grey, light medium clay to medium clay subsoil (0.5 to 1.15m) over a alkaline, mottled, brown or grey light medium to medium clay.	Aquic Vertosol Brown Vertosol Grey Vertosol	Weisenboden Brown clay Grey clay	Ug5.33 Ug5.14 Ug5.24	422
PLAINS AND		N 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	Dg2.41 Dg4.41 Dy3.41	103
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	Dy3.41 Dg2.41 Dy5.41 Dg4.41	434
Wf	Winfield	Grey sand to loamy sand surface over a conspicuously bleached A2 horizons (0.3 to 0.85 m) over acid, mottled, massive, grey loamy sand to sandy loam.	Redoxic Hydrosol	(Bleached) Earthy Sand	Uc2.23 Uc2.22	56
CI	HILLSLOPES OF	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	Redoxic Hydrosol	Gleyed podzolic soil No suitable group	Gn3.04 Dy3.42 Dy3.41	430
Kh	Kalah	medium clay.  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	Gn3.05  Dy3.41  Dy3.43  Dg2.41	148
ALLUVIAL PI	AINS OF THE MA				Dy3.42 Dg2.42	
Bv	Beaver	Black loam to clay loam surface (0.05 to 0.2m) over an acid, black to 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	9
Tb	Timbrell	Black to grey silty clay loam, silty clay to light medium clay surface over a bleached A2 horizon (0.2 to 0.4 m) over a neutral to alkaline, mottled, grey to brown light medium clay to medium heavy clay.	Redoxic Hydrosol	No suitable group, affinity with solodic soils	Gn3.03 Gn3.06 Gn3.93 Uf6.33	851
Wb	Woober	Black to 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	Uf6.41  Uf2  Uf3  Gn3.04	3293
KUROSOL					G13.04	
Ko	Kolan	LY WEATHERED SEDIMENTARY ROCKS  Black to grey loam fine sandy to clay loam fine sandy surface over a bleached A2 horizon (0.15 to 0.3m) over a strongly acid to acid, mottled, sodic, grey to brown medium clay to heavy clay	Grey Kurosol Brown Kurosol Brown Sodosol	Soloth	Dy3.41 Dy3.31	8745
KoRp	Kolan rocky	(0.5+m) over weathered rock.  As above with > 20% rock fragments on the surface.	Grey Sodosol  Grey Kurosol	Soloth	Dy3.41	197
KoRv	phase Kolan red variant	Black to 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	Grey Sodosol Red Kurosol	Soloth	Dr3.41	155
SODOSOL	.S	heavy clay (0.5+m) over weathered rock.				
Do Do	ON GRANITE  Doongul	Black to grey light sandy clay loam to clay loam sandy surface over a bleached A2 horizon (0.1 to 0.25m) over a acid to neutral, frequently mottled, grey to brown medium clay (0.2 to 0.85m) over weathered rock.	Grey Sodosol Brown Sodosol	Soloth Solodic soil Solodized solonetz	Dy2.41 Dy3.42 Dy3.41 Dy2.32 Db3.12 Db1.13	1290
HILLSLOPES Bp	Bauple	Black to grey sand to sandy loam surface over a conspicuously bleached A2 horizon (0.2 to 0.35m) over an acid, occasionally mottled, grey to brown sandy light medium clay to sandy medium	Brown Sodosol Grey Kurosol	Soloth Solodized solonetz	Dy5.41 Dy4.41	227
HILLSLOPES Ow	ON DEEPLY WE	EATHERED ANDESITE  Black to grey fine sandy loam to clay loam surface over a conspicuously or sporadically bleached A2 horizon (0.03 to 0.35) over a acid to neutral mottled, brown to grey light medium clay to heavy clay (0.35 to 0.95) with ferromanganiferous nodules frequently over a mottled, neutral to alkaline, brown, grey to yellow medium clay to heavy clay with andesite fragments.	Brown Sodosol Grey Sodosol	Solodic soil Minor soloth	Dy3.32 Dy3.33 Dy3.43 Dy3.42 Dy3.43	1471
HILLSLOPES Tr	ON MODERATE	Black to grey sandy loam to fine sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) over an acid to neutral, mottled, grey sandy medium clay (0.45 to 1.2m) over	Grey Sodosol	Soloth Solodic soil	Dy3.41 Dy3.42	2283
TrRp	Tirroan rocky phase	weathered rock.  As above with >20% course fragments within 0.3m of the surface.	Grey Sodosol	Soloth Solodic soil	Dy3.41 Dy3.42	599
Av	HILLSLOPES ON Avondale	Grey to 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 to brown medium	Grey Sodosol Grey Kurosol Brown Sodosol	Soloth	Dy3.41	1427
AvRp	Avondale rocky phase	clay to heavy clay (0.35 to 1.5m) over weathered rock.  As above with >20% rock fragments throughout the profile or rock within 0.3m of the surface.	Brown Kurosol Grey Sodosol	Soloth	Dy3.41	221
Тр	Turpin	Grey to 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 to brown medium clay to heavy clay (0.4 to 1.5m) over weathered rock.	Grey Sodosol Grey Kurosol Brown Sodosol Brown Kurosol	Soloth	Dy3.41 Dg2.41	1355
Bt	AINS OF THE MA	Black to grey loam fine sandy to clay loam fine sandy surface over a conspicuously bleached A2 horizon (0.15 to 0.3m) over an	Grey Sodosol Brown Sodosol	Soloth Solodic soil	Dy3.41 Dy3.42	1777
BtSv	Butcher sandy variant	acid to alkaline, mottled, grey to brown light medium clay to heavy clay.  Black to grey sandy loam to fine sandy loam surface over a conspicuously bleached A2 horizon (0.15 to 0.3 m) over an acid to neutral, mottled, grey to brown light medium clay to heavy clay.	Grey Sodosol Brown Sodosol	Soloth Solodic soil	Dy3.43  Dy5.41  Dy 5.43  Dy2.43	85
ALLUVIAL PI	AINS OF LOCAL		Grey Sodosol Grey Kurosol Brown Sodosol	Solodic soil Soloth	Dy3.42 Dy3.41 Dy3.43	793
ALLUVIAL F	ANS	clay.			·	
Sp	Springs	Black to grey sandy loam to sandy clay loam surface over a bleached A2 horizon (0.2 to 0.35m) over a neutral, grey to brown coarse sandy light medium clay to sandy medium clay (0.45 to 1.45m) with manganiferous nodules and grit over layered sands and sandy clays.	Grey Sodosol Brown Sodosol	Solodised Solonetz Solodic soil	Dy2.12p <sup>x</sup> Dy3.42	159
CHROMOS	SOLS					
Is	Isis	N DEEPLY WEATHERED COARSE GRAINED SEDIMENTARY ROCKS  Grey to occasionally black sandy loam surface over a conspicuously bleached A2 horizon (0.3 to 0.7m) over an acid,	Yellow Chromosol Yellow Dermosol	Yellow podzolic soil	Dy3.41 Gn3.84	1684
IsRp	Isis Rocky Phase	mottled, yellow to brown light clay to medium clay.  As above with >10% course fragments, >0.06m and/or >10% surface course fragments, >0.06m in size throughout A2 and/or B	Brown Chromosol Brown Dermosol Yellow Chromosol Yellow Dermosol	Yellow podzolic soil	Dy3.41 Gn3.84	1634
TrPv	Tirroan non sodic variant	horizons.  Black to grey loamy sand, sandy loam to fine sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.5m) over an	Brown Chromosol Brown Dermosol Brown Chromosol Yellow Chromosol	Yellow podzolic soil	Dy3.41	85
FERROSO	LS	acid, mottled, brown to yellow sandy clay to medium clay (0.45 to 1.2m) over weathered rock.				
HILLSLOPES	S AND PLAINS OI	N DEEPLY WEATHERED ANDESITE  Red to occasionally black, acid or neutral, light clay to light medium	Red Ferrosol	Krasnozem	Uf6.31	624
Тd	Teddington	clay surface (0.1 to 0.4m) over a red light clay to light medium clay (>1.5m) frequently with manganiferous nodules over weathered rock.  Brown to black light clay to light medium clay surface (0.15 to	Red Ferrosol	Krasnozem	Uf6.4	220
	.9.011	0.3m) over a mottled, red to brown light clay to light medium clay (0.15 to 0.5m) with manganiferous nodules over a mottled, red light clay to light medium clay (>1.5m) with manganiferous nodules over weathered rock.				
DERMOSO		LY WEATHERED ANDESITE				
Nb	Netherby	Black to grey clay loam to light medium clay surface over sporadically bleached clay loam to light clay A2 horizon (0.1 to 0.2m) over a brown to grey light medium clay to medium clay (0.3 to 0.45m) over a mottled, brown to grey light medium clay to medium clay (0.5 to 1.7m) with manganiferous soft segregations or nodules over weathered rock.	Brown Dermosol Grey Dermosol	No suitable group, affinity with priarie soil	Gn3.63 Gn3.83 Gn3.93	1238
Та	Tiaro	Black to brown clay loam to light medium clay surface (0.05 to 0.35m) over neutral to alkaline, black to brown light clay to medium clay (0.2 to 0.65m) over a grey light clay to medium heavy clay (0.55 to 0.85m) with andesite fragments and occasional carbonate nodules over weathered rock.	Black Dermosol Brown Dermosol	Prairie soil	Uf6.32 Gn3.92 Gn3.22	557

Mapping Unit		Major Attributes of Dominant soil	Australian Classification	Great Soil Group	Principle Profile Form	Are (ha		
HILLSLOPES Jp	S ON DEEPLY W	EATHERED ANDESITE  Grey to brown clay loam fine sandy to light medium clay surface	Brown Dermosol	No suitable group,	Uf6.41	461		
	·	(0.1 to 0.3m) over a mottled, neutral, brown to yellow light clay to medium heavy clay with manganiferous nodules.	Yellow Dermosol	affinities with xanthozem	Uf4.42 Gn3.72	401		
Bc	Bucca	Grey, brown to black light clay to light medium clay surface (0.15 to 0.2m) over a mottled, acid, grey to brown medium clay to heavy clay (0.7 to 1.3m) frequently with ferruginous nodules over a acid, grey, light clay to medium clay (0.7 to 1.5m) with course fragments over weathered rock.	Grey Dermosol Brown Dermosol	No suitable group affinities with grey clay	Uf3 Uf6.41	953		
Gb	HILLSLOPES O	Brown to 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 <sup>x</sup> Gn3.12p <sup>x</sup> Dr2.11p <sup>x</sup> Um6.33p <sup>x</sup> Gn3.14	491		
Md	Meadowvale	Grey loamy sand to sandy loam surface over a conspicuously bleached A2 horizon (0.25 to 0.7m) changing to a mottled, massive, yellow to brown sandy light clay changing to an acid, mottled, structured, yellow to brown light clay to medium clay.	Yellow Dermosol Brown Dermosol	Yellow podzolic soil	Gn3.14 Gn3.84 Gn3.04	87		
Avyv	HILLSLOPES C	ON DEEPLY WEATHERED FINE GRAINED SEDIMENTARY ROCKS  Grey or black fine sandy loam to clay loam fine sandy surface	Yellow Dermosol	Yellow Podzolic soil	Dy3.41	9		
	Yellow variant	over a bleached fine sandy loam to clay loam fine sandy A2 (0.15 to 0.35m) over an acid mottled, yellow light clay to light medium clay (0.4 to 0.6m) over a mottled grey medium heavy clay to heavy clay (0.4 to 1.5m) over a mottled acid, grey, medium clay to heavy clay with rock fragments.			Gn3.84			
Bg	Bungadoo	Black to grey clay loam surface over a conspicuously bleached A2 horizon (0.2 to 0.55m) over a strongly acid, mottled, brown, grey to yellow light clay (0.75 to 0.9m) with >20% silicified rock throughout the profile.	Brown Dermosol Grey Dermosol Yellow Dermosol	No suitable group, affinities with soloth	Gn3.04 Gn3.84	244		
Кр	Kepnock	Grey to black loam fine sandy to clay loam surface over a bleached A2 horizon (0.3 to 0.45m) over an acid, mottled, yellow to 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	182		
Ot	Otoo	Black to brown fine sandy clay loam to clay loam surface (0.25 to 0.45m) over an occasionally bleached fine sandy clay to light clay A2 horizon (0.25 to 0.45m) over a acid, yellow to brown fine sandy light clay to light clay (0.55 to 0.95m) over a acid, mottled, red light clay to light medium clay with ferruginous nodules.	Red Dermosol	Red Podzolic soil	Gn3.51 Gn3.54 Gn3.71 Gn3.74 Gn3.64	11		
Wo	Woco	Grey to 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 to brown light clay to medium clay with	Grey Dermosol Brown Dermosol Grey Kurosol	Soloth	Gn3.04 Dy3.41	35		
Wt	Watalgan	ferruginous nodules.  Black to brown clay loam surface over an acid, red light clay to medium clay with ferruginous nodules.	Brown Kurosol  Red Dermosol  Red Ferrosol	Red podzolic soil	Gn3.14 Gn3.11p <sup>x</sup> Dr2.21	158		
	LAINS OF THE M		<b>-</b>		Uf6.31p <sup>x</sup>			
Ad	Aldershot	Grey, black to 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	180		
Co	Copenhagen	Brown to black, loam to clay loam surface (0.05 to 0.5m) over neutral, brown loam to fine sandy light clay A3/B1 horizon (0.5 to 0.95m) over a brown, neutral, sandy clay loam to fine sandy light clay (0.95 to 1.5m) over a brown alluvial sand or loam.	Brown Dermosol Orthic Tenosol Leptic Tenosol	Prairie soil Alluvial soil	Gn3.92 Gn3.22 Um5.52 Um6.23 Um6.31	343		
Gr	Granville	Black to grey light clay to light medium clay surface over a sporadically bleached A2 horizon (0.1 to 0.25m) over an acid, mottled, grey to brown medium clay to heavy clay.	Grey Dermosol Brown Dermosol Redoxic Hydrosol Brown Vertosol	No suitable group, affinities with grey clay	Uf3 Ug3.2	295		
Mg	Mungar	Black to grey silty light clay to silty light medium clay over a sporadically bleached light to light medium clay A2 horizon (0.1 to 0.25m) over a mottled, alkaline grey to brown light medium clay to medium heavy clay with manganiferous and/or calcareous nodules.	Brown Dermosol Grey Dermosol	No suitable group Grey clay	Uf3	123		
Му	Mary	Black to 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	802		
MyDv	Mary Dark Variant	Black silty clay loam to silty clay surface (0.1 to 0.25 m) over an acid to neutral, black light clay to medium clay.	Black Dermosol	Prairie soil	Uf6.32	98		
Wk	Walker	Black to occasionally grey silty clay loam to light medium clay surface (0.05 to 0.25m) over an acid to neutral, mottled, grey to black light medium clay to heavy clay (0.4 to 1.2m) becoming greyer at depth.	Grey Dermosol Brown Dermosol Black Dermosol	Humic gley	Gn3.91 Gn3.92 Uf6.41	437		
Gy	LAINS OF LOCAI	Black to grey light medium clay surface (0.2 to 0.4m) over an alkaline, black, grey to brown medium clay to medium heavy clay (1.2 to 1.5m) over a strongly alkaline, grey medium heavy clay with calcareous nodules, gravels and grit.	Grey Dermosol Redoxic Hydrosol Oxyaquic Hydrosol	No suitable group affinities with prairie soil	Uf6.32 Uf6.33	94		
KANDOSC	DLS							
PLAINS AND Ff	Farnsfield	Red to brown loamy sand to sandy clay loam surface over an acid to neutral, red sandy clay loam to light clay.	Red Kandosol	Red Earth	Gn2.11 Gn2.12 Um5.52	223		
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 <sup>x</sup>	40		
Ok	OAkwood	Brown to black clay loam fine sandy to light clay surface (0.25 to 0.35m) over a brown to red clay loam fine sandy to light clay (0.45 to 0.7m) over a red fine sandy light clay to light medium clay with ferruginous nodules.	Red Kandosol	Red Earth	Gn2.11 Gn2.12 Gn2.21 Uf6.53	48		
ALLUVIAL P	LAINS OF THE L	DOCAL CREEKS  Black to grey sandy loam to loam fine sandy surface over an acid to neutral, yellow, grey to 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	326		
ALLUVIAL PI	LAINS OF THE N	Black sandy loam to loam surface (0.25 to 0.3) over a brown sandy	Brown Kandosol	Earthy sand	Uc5.22 Gn2.42	158		
ALLUVIAL F	ANS	clay loam (0.5 to 1.15m) frequently with very few manganiferrous nodules over layered alluvial sands or loams.						
Gu	Guyra	Black to grey loamy sand to coarse sandy clay loam surface over a bleached coarse sand to sandy clay loam A2 horizon (0.3 to 0.45m) over a brown coarse sand to sandy clay loam (0.5 to 1.2m) over brown gritty coarse sand sediments.	Brown Kandosol Orthic Tenosol	No suitable group Earthy sand	Gn2.92 Um2.21 Uc2.21	30		
RUDOSOL								
Ba	LAINS OF THE N	Brown sand to sandy loam surface (0.1 to 0.25m) over a layered brown sand to loamy sand.	Stratic Rudosol	Siliceous sand Alluival soil	Uc1.23 Uc1.21	207		
TENOSOL	s							
AvTv	Avondale Tenic Variant	Grey to black fine sandy loam to clay loam fine sandy surface over a conspicuously bleached, mottled, fine sandy loam to clay loam fine sandy A2 Horizon (0.15 to 0.3m) over duricrusted	Bleached-Leptic Tenosol	(Bleached) Lithosol	Um2	6		
Rt	Rothchild	sedimentary rock.  Black to grey sand to sandy loamy surface usually with an A2 horizon (0.4 to 0.9m) over an acid, massive, red, brown to yellow loamy sand to sandy loam (0.6 to 1.15m) over weathered	Bleached-Orthic Tenosol Orthic Tenosol	(Bleached) Earthy sand Earthy sand	Uc2.21 Uc4.21 Uc4.22	39		
Tk	Takoko	sandstone.  Black to grey clay loam surface over a conspicuously bleached A2 horizon (0.2 to 0.55 m) with >20% silicified rock throughout the	Bleached-LepticTenosol	(Bleached) Lithosol	Um2	125		
Ті	Tinana	profile.  Grey sandy loam to clay loam sandy surface (0.05 to 0.3m) over slightly acid, brown loamy sand to sandy loam subsoil (0.3 to 1.1m) over layered mottled, brown clay loam sandy to light medium clay.	Orthic Tenosol	Earthy Sand	Uc5.11, Uc5.21	115		
		MISCELLANEOUS UNITS						
DLQ	Quarry	Quarries and land with land fill	n 5 ha in ciza					
DLU	Urban   Water	Urban, suburban, and rural residential areas with land parcels less than 5 ha in size.  Large waterstorages						
HIL								
MTN	Mountain	Mountains with greater than 300m relative relief and slopes greater that	aii JU70					

MTN Mountain Mountains with greater than 300m relative relief and slopes greater than 30%

1. The primary division in the reference is based on the dominant Australian Classification Soil Order (Isbell 1996) for each mapping unit.

3. Adjoining mapping units with the same code are separated because of different attributes, for example, different slope

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.

Indicates that one soil overlies another soil. For example, the podosol of the Theodolite 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

DISCLAIMER

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5. Within areas of intense variability, the mapping unit is a soil complex with more than one soil being co-dominant. Where this occurs, the mapping unit is named after all

SWP Swamp Closed depression with permanent water table at or above the surface.

MAPPING UNIT CODE EXPLANATION

MISCELLANEOUS SYMBOLS

SOIL BOUNDARY CONFIDENCE LEVEL

4. (123) Unique map area (UMA) number

the co-dominant soils, for example, Do-Ko.