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WESTERN AUSTRALIA

**Australian Nature Conservation Agency
National Reserves Systems Co-operative Program
Project No N703**

**Conservation Status of Vegetation Types
throughout Western Australia.**

Final Report

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Appendix 1.

Details of the new vegetation taxonomy developed for this project

Table 1. List of the 821 Types (vegetation types, mosaics and unvegetated types) recognised in Western Australia and included on the 1:250,000 maps.

Table 2. List of the 199 Groups created by agglomerating related Types.

Table 3. List of the 50 Supergroups created by agglomerating related Types beyond the Group level. This listing forms the basis for the key of the new 1:3,000,000 map of the Vegetation of Western Australia.

Table 4. Adaptation of Beard's classification scheme showing the physiognomic types recognised by Beard in mapping the vegetation of the State.



Appendix 1. Table 1. List of the 823 Types (vegetation types, mosaics and unvegetated types) recognised in Western Australia and included on the 1:250,000 scale vegetation maps.

H CODE	BEARD FORMULA	VEGETATION DESCRIPTION
Tc-01	e1Tc	Tall forest; karri
Tc-01a	e1Tc	Tall forest; karri
Tc-02	e2Tc	Tall forest; jarrah
Tc-02a	e2Tc	Tall forest/woodland; jarrah
Tc-02b	e2,3,Tc	Tall forest; jarrah & marri
Ti-01	e4Ti	Tall woodland; tuart
Ti-01a	e4Ti	Tall woodland; tuart
Mc-01	e2,3,5Mc	Medium forest : jarrah-marri-wandoo
Mc-01a	e2,3Mc	Medium forest; jarrah-marri
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo
Mc-01c	e2,3,5Mc	Medium forest; jarrah-marri-wandoo
Mi-01	e2,3,5 Mi	Medium woodland; jarrah-marri-wandoo (also with e7,45,63)
Mi-01a	e2,3Mi	Medium woodland; jarrah & marri
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo
Mi-01d	e2,5Mi	Medium woodland; jarrah-wandoo
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark
Mi-01f	e3Mi	Medium woodland; marri
Mi-01h	e2,3,5,7Mi	Medium woodland; jarrah & marri-wandoo-yate
Mi-01j	e3,5,45Mi	Medium woodland; marri,wandoo, powderbark
Mi-01k	e5Mi	Medium woodland; wandoo
Mi-01l	e5Mi	Medium woodland; small wandoo patches surrounded by e2, 5Mi; e5, 7Mi
Mi-02	e4Mi	Medium woodland; tuart (also with e2)
Mi-02a	e4Mi	Medium woodland; tuart
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah
Mi-03	e37Mi	Medium woodland; yate (also with e3)
Mi-03a	e37Mi	Medium woodland; yate
Mi-03b	e3,37Mi	Medium woodland; marri & yate
Mi-04	e5,45,64Mi	Medium woodland; wandoo-powderbark-mallet
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet
Mi-04c	e64Mi	Medium woodland; mallet

Appendix 1 Table 1 continued

Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet
Mi-04e	e5,69Mi	Medium woodland; wandoo & blue mallet
Mi-04f	e5,9,69Mi	Medium woodland; wandoo, morrell & blue mallet
Mi-05	eMi wheatbelt	Medium woodland; central wheatbelt e5,6,8,9,14,34,35
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum
Mi-05c	e6Mi	Medium woodland; York gum
Mi-05d	e8Mi	Medium woodland; salmon gum
Mi-05e	e9Mi	Medium woodland; morrel
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel
Mi-05h	e6,8,9Mi	Medium woodland; York gum, salmon gum & morrel
Mi-05i	e5,34Mi	Medium woodland; wandoo & gimlet
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet
Mi-05k	e9,35Mi	Medium woodland; morrell & blackbutt
Mi-05l	e9,14Mi	Medium woodland; morrel & Dundas blackbutt
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet
Mi-05o	e8,9,34,35Mi	Medium woodland; salmon gum, morrel, gimlet & blackbutt
Mi-05p	e6,8,9,34,35Mi	Medium woodland; wandoo, salmon gum, morrel, gimlet & blackbutt
Mi-05q	e35Mi	Medium woodland; blackbutt on greenstone hills
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell
Mi-06	eMi goldfields	Medium woodland; eastern goldfields e10,11,12,13,14,22,34,38 (also with 6,8,9)
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit
Mi-06b	e10,22Mi	Medium woodland; redwood & red mallee
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)
Mi-06d	e11,12Mi	Medium woodland; merrit & coral gum
Mi-06e	e11,22Mi	Medium woodland; merrit & red mallee
Mi-06f	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt
Mi-06g	e8,14Mi	Medium woodland; salmon gum & Dundas blackbutt
Mi-06h	e13Mi	Medium woodland; goldfields blackbutt
Mi-06i	e13,14Mi	Medium woodland; goldfields blackbutt & Dundas blackbutt
Mi-06j	e13,22Mi	Medium woodland; goldfields blackbutt & red mallee
Mi-06k	e14,22Mi	Medium woodland; Dundas blackbutt & red mallee
Mi-06l	e22Mi	Medium woodland; red mallee group

Appendix 1 Table 1 continued

Mi-06m	e6,22Mi	Medium woodland; York gum & red mallee
Mi-06n	e8,22Mi	Medium woodland; salmon gum & red mallee
Mi-06o	e34Mi	Medium woodland; gimlet
Mi-06p	e8Mi/e11,22Mi	Medium woodland; salmon gum mixed with merrit & red mallee
Mi-06q	e8Mi/e11,23Mi	Medium woodland; salmon gum mixed with merrit & desert bloodwood (<i>Eucalyptus</i> sp.)
Mi-06r	e8,9,34,39Mi	Medium woodland; salmon gum, morrel, gimlet & <i>Eucalyptus sheathiana</i>
Mi-06s	e8,10,11,34,39Mi	Medium woodland; salmon gum, redwood, merrit, gimlet & <i>Eucalyptus sheathiana</i>
Mi-06t	e8,9,10,11,34,39?Mi	Medium woodland; salmon gum, morrel, redwood, merrit, gimlet & <i>Eucalyptus sheathiana</i>
Mi-06u	eMi	Medium woodland; goldfield eucalypts (unknown species)
Mi-07	eMi river N	Medium woodland; riverain north of Eneabba e17,18 with e 52
Mi-07a	e17Mi	Medium woodland; coolabah
Mi-07b	e18Mi	Medium woodland; river gum
Mi-07c	e18tMi	Medium woodland; river gum & terminalia
Mi-07d	e18tMi/e17,52Mi	Medium woodland; river gum & terminalia mixed with coolabah & ghost gum
Mi-07e	e17,18Mi	Medium woodland; coolabah & river gum
Mi-08	eMi river S	Medium woodland; riverain south of Eneabba e18 with e2,3,6,71,72&ag
Mi-08a	e18Mi	Medium woodland; river gum
Mi-08b	e2,18Mi	Medium woodland; jarrah & river gum
Mi-08c	e6,18Mi	Medium woodland; York gum & river gum
Mi-09	eMi swamps	Medium woodland; swamp e7 (also with e6,6,8)
Mi-09a	e7Mi	Medium woodland; yate
Mi-09b	e5,6,7Mi	Medium woodland; wandoo, York gum & yate
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate
Mi-09d	e6,7Mi	Medium woodland; York gum & yate
Mi-09e	e7mMi	Medium woodland; yate & teatree
Mi-09f	e7,8Mi	Medium woodland; yate & salmon gum
Mi-09e	e6,7,8Mi	Medium woodland; York gum, yate & salmon gum
Mi-10	e48,49Mi (IPI)	Medium woodland-tropical messmate; stringybark & woolybutt (also with palms)
Mi-10a	e48,49Mi	Medium woodland-tropical messmate; stringybark & woolybutt
Mi-10b	e48,49MiPI	Medium woodland-tropical messmate; stringybark & woolybutt with understory of palms
Mi-11	ecMi	Medium woodland; eucalypts & casuarina e2,6 & c2,5,6
Mi-11a	c5e6Mi	Medium woodland; York gum & <i>Allocasuarina huegelliana</i>
Mi-11b	c6e6Mi	Medium woodland; York gum & <i>Casuarina obesa</i>
Mi-11c	e6,8,c2Mi	Medium woodland; York gum, salmon gum & <i>Allocasuarina cristata</i>
Mi-12	c6Mi	Medium woodland; wetlands casuarina

Appendix 1 Table 1 continued

Mi-12a	c6Mi	Medium woodland; <i>Casuarina obesa</i>
Mr-01	e2,3,5,Mr	Medium open woodland; jarrah, marri, wandoo
Mr-01a	e2Mr	Medium open woodland; jarrah
Mr-01b	e3Mr	Medium open woodland; marri
Mr-01c	e5Mr	Medium open woodland; wandoo
Mr-01d	e5,45Mr	Medium open woodland; wandoo & powderbark wandoo
Mr-02	e4Mr	Medium open woodland; tuart
Mr-02a	e4Mr	Medium open woodland; tuart
Mr-02b	e3,4Mr	Medium open woodland; marri & tuart
Mr-02c	e8,9Mr	Medium open woodland; salmon gum & morrel
Mr-03	e18,Mr	Medium open woodland; swamp e18 with e3,6,
Mr-03a	e3,18Mr	Medium woodland; marri & river gum
Mr-03b	e6,18Mr	Medium woodland; York gum & river gum
Mp-01	e2,3Mp	Medium sparse woodland
Mp-01a	e2,3Mp	Medium sparse woodland; jarrah & marri
Mp-01b	e8,9Mp	Medium sparse woodland; salmon gum & morrel
Mp-01c	e8,36Mp	Medium sparse woodland; salmon gum & yorrell
Mp-01d	c1Mp	Medium sparse woodland; desert oak
ML-01	e6pMLI	Medium-Low woodland eucalypt & callitris (cypress pine)
ML-01a	e6pMLI	Medium-Low woodland; York gum & <i>Callitris columellaris</i> (cypress pine)
Lm-01	eMr bLI	Medium open woodland; eucalypt, with low woodland; banksia
Lm-01a	e2,3Mr bLI	Medium open woodland; jarrah & marri, with low woodland; banksia
Lm-01b	eMr b1,2LI	Medium open woodland; eucalypt (e2?), with low woodland; <i>Banksia attenuata</i> & <i>B. menziesii</i>
Lm-01d	e2Mb cbLI	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina
Ld-01	xLd	Low dense forest- mixed tropical deciduous forest.
Ld-01a	xLd	Low dense forest-mixed tropical deciduous forest.
Lc-01	a23Lc	Low forest; <i>Acacia rostellifera</i>
Lc-01a	a23Lc	Low forest; <i>Acacia rostellifera</i>
Lc-02	pLc	Low forest; callitris (cypress pine)
Lc-02a	pLc	Low forest; callitris (cypress pine)
Lc-03	mLc	Low forest; teatree
Lc-03a	mLc	Low forest; teatree
Lc-03b	mcLc	Low forest; teatree & casuarina
Lc-04	xLc	Low forest; mixed tropical deciduous forest.
Lc-04a	xLc	Low forest; mixed tropical deciduous forest.

Appendix 1 Table 1 continued

Lc-05	e33,37,38Lc	Low forest; coastal
Lc-05b	e33Lc	Low forest; moort
Lc-06	e2Lc	Low forest; jarrah (also e67,c)
Lc-06a	e2Lc	Low forest; jarrah
Lc-06b	e2,67Lc	Low forest; jarrah & <i>Eucalyptus decipiens</i>
Lc-06c	ecLc	Low forest; jarrah & casuarina
LI-01	e2bLI	Low woodland; jarrah-banksia,
LI-01a	e2bLI	Low woodland; jarrah-banksia
LI-02	a1LI	Low woodland; mulga, <i>Acacia aneura</i> continuous
LI-02a	a1LI	Low woodland; mulga
LI-02b	a1LI	Low woodland; mulga on dolerite
LI-02c	a1LI	Low woodland; mulga (?with spinifex) on rises
LI-03	a1LI (sand)	Low woodland; mulga between sandridges
LI-03a	a1LI	Low woodland; mulga between sandridges
LI-04	a1nLI	Low woodland; mulga, <i>Acacia aneura</i> with other acacia
LI-04a	a1,9LI	Low woodland; mulga & bowgada
LI-04b	a1,10LI	Low woodland; mulga & <i>Acacia victoriae</i>
LI-04c	a1,11LI	Low woodland; mulga & snakewood
LI-04d	a1,10,11LI	Low woodland; mulga, <i>Acacia victoriae</i> & snakewood
LI-04e	a1,9,14,17LI	Low woodland; mulga, bowgada, <i>Acacia quadrimeria</i> & minnieritchie (<i>A. grasbyi</i>)
LI-05	aceLI	Low woodland; mulga with casuarina, callitris or eucalypts;
LI-05a	a1c2eLI	Low woodland; mulga mixed with <i>Allocasuarina cristata</i> & <i>Eucalyptus</i> sp (e6?)
LI-05b	aceLI	Low woodland; mulga mixed with cypress pine & york gum
LI-05c	a1c2LI	Low woodland; mulga & <i>Allocasuarina cristata</i>
LI-05d	a1cLI	Low woodland; mulga & callitris
LI-05e	a1c2Lr	Low open woodland; mulga & <i>Allocasuarina cristata</i>
LI-05f	a1e22LI	Low woodland; mulga & red mallee
LI-05g	c(p)e6LI	Low woodland; York gum, and callitris (pine) (adjacent to e6pMLI)
LI-06	aLI	Low woodland; other acacia a2,3,8,9,10,11,16
LI-06a	a2LI	Low woodland; kanji
LI-06b	a3LI	Low woodland; waterwood
LI-06c	a10,11LI	Low woodland; <i>Acacia victoriae</i> & snakewood
LI-06d	a8,10LI	Low woodland; <i>Acacia sclerosperma</i> & <i>A. victoriae</i>
LI-06e	a9,16LI	Low woodland; bowgada & <i>Acacia subtessarogona</i>
LI-07	eLI	Low woodland; eucalypts e2,6,8,40,44,67

Appendix 1 Table 1 continued

Lp-01b	a1,10Lp	Sparse low woodland; mulga & <i>Acacia victoriae</i> in scattered groups
Lp-01c	a10,11Lp	Sparse low woodland; <i>Acacia victoriae</i> & shankwood) in scattered groups
Lp-01d	e44Lp	Sparse low woodland; illyarie
Lp-01e	e5,45Lp	Sparse low woodland; wandoo & powderbark wandoo
A-01	mangrove	Low forest-thicket mangrove
A-01a	mangrove	Low forest; mangroves(Kimberley) or thicket; mangroves (Pilbara)
LS-01	xLSI	Shrublands; tree-heath or low trees & scrub e,m
LS-01a	xLSI	Shrublands tree-heath between sandhills
LS-01b	mLSI	Shrublands low trees & scrub; teatree
SM-01	eMi aSi	Medium woodland over scrub e6,17 over a9,19
SM-01a	e6Mi a9,19Si	Medium woodland over scrub; York gum over bowgada & jam scrub
SM-01b	e17Mi a9Si	Medium woodland over scrub; coolabah over bowgada scrub
Sm-01	eMr mSc	Shrublands; thicket with scattered medium trees e6,6,7,18 m6,6, or c
Sm-01a	e5,7Mr mSc	Shrublands; teatree thicket with scattered wandoo & yate
Sm-01b	e6Mr m6Sc	Shrublands; <i>Melaleuca uncinata</i> thicket with scattered York gum
Sm-01c	e6Mr m5Sc	Shrublands; <i>Melaleuca thyoides</i> thicket with scattered York gum
Sm-01d	e18Mr m5Sc	Shrublands; <i>Melaleuca thyoides</i> thicket with scattered river gum
Sm-01f	e5Mr c3Sc	Shrublands; thicket (?species) with scattered wandoo
Sm-02	eMr aSi	Shrublands; scrub with scattered medium trees; eucalypts e6,22 over a9,19,23
Sm-02b	e6Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum
Sm-02d	e6Mr a19,23Si	Shrublands; jam and ? <i>Acacia rostellifera</i> or ?hakea scrub with scattered York gum
Sm-02e	e6,22Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum & red mallee
Sm-03	ceMr aSi	Shrublands; scrub with scattered medium trees; e6,13, c2,6 over a9,14,19
Sm-03a	c5e6Mr a19Si	Shrublands; jam scrub with scattered casuarina & York gum
Sm-03b	e6c5Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered casuarina & York gum
Sm-03c	c2e13Mi a14Sc	Shrublands; <i>Acacia quadrimeria</i> thicket with casuarina & goldfields blackbutt woodland
Sm-04	eMr eaSi	Shrublands; mallee & acacia scrub with scattered emergent eucalypts e6,22 over a?e?
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum
Sm-04b	e6,22Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum & red mallee
Sm-05	eMr eSi	Shrublands; mallee with scattered eucalypts;
Sm-05a	e6Mr eSi	Shrublands; mallee with scattered York gum
SL-01	xLi aSi	Low woodland over scrub a1,c2,5,p over a9,17
SL-01a	a1Li a9,17Si	Low woodland over scrub; mulga over bowgada & minnieritchie scrub
SL-01b	a1Li a9Si	Low woodland over scrub; mulga over bowgada scrub

Appendix 1 Table 1 continued

SL-01c	c2Li a9Si	Low woodland over scrub; <i>Allocasuarina cristata</i> over bowgada scrub
SL-01d	c5Li a19Si	Low woodland over scrub; <i>Allocasuarina huegeliana</i> over jam scrub
SL-02	cLi eaSi	Shrublands; mallee & acacia scrub with scattered emergent casuarina
SL-02a	c5Li eaSi	Shrublands; mallee & acacia scrub with wandoo low woodland
SI-02	a1Lr aSi	Shrublands; scrub with scattered low trees; mulga over a9
SI-02a	a1Lr a(n)Si	Shrublands; acacia scrub with scattered mulga
SI-02b	a1Lr a9Si	Shrublands; bowgada scrub with scattered mulga
SI-02c	a1Lr a9,17Si	Shrublands; bowgada & minneritchie scrub with scattered mulga
SI-03	xLr aSi	Shrublands; scrub with scattered low trees; e6,22,42,c2,p over a9,14,19
SI-03a	e22,42Lr a9Si	Shrublands; bowgada scrub with scattered red mallee & <i>Eucalyptus</i> sp.
SI-03b	e6,22Lr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum & red mallee
SI-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum
SI-03d	epLr a9Si	Shrublands; bowgada scrub with scattered eucalypts.& callitris
SI-03e	ceLr a9Si	Shrublands; bowgada scrub with scattered eucalyptus sp.& ?callitris sp.or ?casuarina
SI-03f	cLr a9Si	Shrublands; bowgada scrub with scattered ?callitris sp.or ?casuarina
SI-03g	c2e6Lr a14,19Si	Shrublands; <i>Acacia quadrifolia</i> & jam scrub with scattered York gum & <i>Allocasuarina huegeliana</i>
SI-01	xLr xSc	Shrublands; thicket with scattered low trees e6,45,c8 over m6,6,c,d,
SI-01a	c6Lr m5Sc	Shrublands; <i>Melaleuca thyoides</i> thicket with scattered casuarina
SI-01b	e45Lr m6Sc	Shrublands; <i>Melaleuca uncinata</i> thicket with scattered powderbark wandoo mallee
SI-01c	e5,45Li cdSc	Shrublands; casuarina & dryandra thicket with scattered wandoo and powderbark wandoo
Sc-01	acSc	Shrublands; thicket, acacia-casuarina alliance a19 c3,4,5,
Sc-01a	ac3Sc	Shrublands; thicket, acacia & <i>Allocasuarina campestris</i>
Sc-01b	a19c4Sc	Shrublands; thicket, Jam & <i>Allocasuarina acutivalvis</i> on ironstone
Sc-01c	a19c5Si	Shrublands; thicket, Jam & <i>Allocasuarina huegeliana</i>
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance ?species
Sc-02	aSc	Shrublands; Acacia thicket a12,13,14,19,22,23,31,32,34,35
Sc-02a	a12Sc	Shrublands; <i>Acacia ?cyperophylla</i> thicket
Sc-02b	a14Sc	Shrublands; <i>Acacia quadrifolia</i> thicket
Sc-02c	a19Sc	Shrublands; jam thicket
Sc-02d	a22Sc	Shrublands; <i>Acacia ligulata</i> x <i>rostellifera</i> thicket
Sc-02e	a23Sc	Shrublands; <i>Acacia rostellifera</i> thicket
Sc-02g	a31Sc	Shrublands; <i>Acacia decipiens</i>
Sc-02h	a23,32Sc	Shrublands; <i>Acacia rostellifera</i> & <i>Acacia cyclops</i> thicket
Sc-02i	a32Sc	Shrublands; <i>Acacia cyclops</i> thicket
Sc-02j	a33Sc	Shrublands; <i>Acacia neurophylla</i> & A. species thicket

Appendix 1 Table 1 continued

Sc-02i	a33,34,35Sc	Shrublands; <i>Acacia neurophylla</i> , <i>A. beauverdiana</i> & <i>A. resinomarginata</i> thicket
Sc-03	amSc	Shrublands; thicket, acacia-melaleuca alliance a9,19,23 m3,6
Sc-03a	a9,19m6Sc	Shrublands; bowgada, jam and <i>Melaleuca uncinata</i> thicket
Sc-03b	a23m3Sc	Shrublands; <i>Acacia rostellifera</i> & <i>Melaleuca cardiophylla</i> thicket
Sc-04	cSc	Shrublands; thicket, casuarina c3
Sc-04a	c3Sc	Shrublands; <i>Allocasuarina campestris</i> thicket
Sc-04b	c3Si	Shrublands; <i>Allocasuarina campestris</i> scrub
Sc-05	ecS	Shrublands; thicket, mallee-casuarina alliance
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket
Sc-06	acmSc	Shrublands; thicket, acacia-casuarina-melaleuca alliance
Sc-06a	acmSc	Shrublands; thicket, acacia-casuarina-melaleuca alliance
Sc-07	cmSc	Shrublands; thicket, casuarina-melaleuca alliance
Sc-07a	cmSc	Shrublands; thicket, casuarina-melaleuca alliance
Sc-08	mSc	Shrublands; teatree thicket m 3, 4,5,6
Sc-08a	m6Sc	Shrublands; <i>Melaleuca uncinata</i> thicket
Sc-08b	m5Sc	Shrublands; <i>Melaleuca thyoides</i> thicket
Sc-08c	m3Sc	Shrublands; <i>Melaleuca cardiophylla</i> thicket
Sc-08d	mSc	Shrublands; teatree thicket
Sc-09	xSc	Shrublands; thicket, other
Sc-09a	a Sc	Shrublands; <i>Acacia-Lamarchea</i> thicket
Sc-09b	c3dSc	Shrublands; Tammar & <i>Dryandra</i> thicket
Sc-09c	c4Sc	Shrublands; <i>Allocasuarina</i> - <i>Calothamnus</i> thicket
Sc-09d	dSc	Shrublands; Mt Ragged heath
Sc-09e	edSc	Shrublands; <i>Dryandra quercifolia</i> & <i>Eucalyptus</i> spp. thicket
Sc-09f	mhSc	Shrublands; mixed thicket
Sc-09g	ace70b4xSc	Shrublands; acacia,casuarina, <i>E. eudesmoides</i> , <i>Banksia ashbyi</i> & other mixed species thicket
Sc-09h	xSc	Shrublands; thicket, mixed
SI-01	a1nSi	Shrublands; mulga scrub, also with a8,9,10,11,14,17
SI-01a	a1Si	Shrublands; mulga scrub
SI-01b	a1,8Si	Shrublands; mulga & <i>Acacia sclerosperma</i> scrub
SI-01c	a1,9Si	Shrublands; mulga & bowgada scrub
SI-01d	a1,10,11Si	Shrublands; mulga, <i>Acacia victoriae</i> & snakewood scrub
SI-01e	a1,11Si	Shrublands; mulga & snakewood scrub
SI-01f	a1,14Si	Shrublands; mulga & <i>Acacia quadrimeria</i> scrub
SI-01g	a1,17Si	Shrublands; mulga & minneritchie scrub

Appendix 1 Table 1 continued

SI-01h	a1,9,14,17Si	Shrublands; mulga, bowgada, <i>Acacia quadrifolia</i> & minnieritchie scrub
SI-02	aSi NW	Shrublands; other wattle scrub a8,9,10,11,12,14,15,16,17,19,20, (mainly in the north west)
SI-02a	a3,10Si	Shrublands; waterwood & <i>A. victoriae</i> scrub
SI-02b	a6Si	Shrublands; <i>Acacia bivenosa</i>
SI-02c	a8,9Si	Shrublands; <i>Acacia sclerosperma</i> & bowgada scrub
SI-02d	a8,9,10Si	Shrublands; <i>Acacia sclerosperma</i> , bowgada & <i>A. victoriae</i> scrub
SI-02f	a8,9,11Si	Shrublands; <i>Acacia sclerosperma</i> , bowgada & snakewood scrub
SI-02g	a8,9,19Si	Shrublands; <i>Acacia sclerosperma</i> , bowgada & jam scrub
SI-02h	a8,10Si	Shrublands; <i>Acacia sclerosperma</i> & <i>A. victoriae</i> scrub
SI-02i	a8,10,16Si	Shrublands; <i>Acacia sclerosperma</i> , <i>A. victoriae</i> & <i>A. subtruncata</i> scrub
SI-02j	a8,10,11Si	Shrublands; <i>Acacia sclerosperma</i> , <i>A. victoriae</i> & snakewood scrub
SI-02k	a8,11Si	Shrublands; <i>Acacia sclerosperma</i> & snakewood scrub
SI-02l	a8,17Si	Shrublands; <i>Acacia sclerosperma</i> & minnieritchie scrub
SI-02m	a9Si	Shrublands; bowgada scrub
SI-02n	a9,10Si	Shrublands; bowgada & <i>A. victoriae</i> scrub
SI-02o	a9,14Si	Shrublands; bowgada & <i>Acacia quadrifolia</i> on stony ridges
SI-02p	a9,17Si	Shrublands; bowgada & minnieritchie scrub
SI-02q	a9,19Si	Shrublands; bowgada & jam scrub
SI-02r	a9,20Si	Shrublands; bowgada & <i>A. murrayana</i> scrub
SI-02s	a10Si	Shrublands; <i>Acacia victoriae</i> scrub
SI-02t	a10,11Si	Shrublands; snakewood & <i>A. victoriae</i> scrub
SI-02u	a11Si	Shrublands; snakewood scrub
SI-02v	a11,17Si	Shrublands; snakewood & minnieritchie scrub
SI-02w	a9nSi	Shrublands; bowgada scrub and other species
SI-02x	anSi	Shrublands; acacia scrub, various species
SI-02y	aSi	Shrublands; acacia scrub, general
SI-03	aSi SE	Shrublands; other wattle scrub a12,14,15, mainly in the south-east
SI-03a	a12Si	Shrublands; <i>Acacia ?cyathophylla</i> scrub
SI-03b	a14Si	Shrublands; <i>Acacia quadrifolia</i> scrub
SI-03c	a14,19Si	Shrublands; <i>Acacia quadrifolia</i> & jam scrub on greenstone
SI-03d	a15Si	Shrublands; <i>Acacia brachystachya</i> scrub
SI-04	axSi	Shrublands; acacia & grevillea/banksia or melaleuca scrub
SI-04a	abSi	Shrublands; acacia & banksia scrub
SI-04b	a9gSi	Shrublands; bowgada & grevillea scrub
SI-04c	amSi	Shrublands; acacia & melaleuca scrub

Appendix 1 Table 1 continued

Si-05	agSi	Shrublands; peppermint scrub, <i>Agonis flexuosa</i>
Si-05a	agSi	Shrublands; peppermint scrub, <i>Agonis flexuosa</i>
Si-06	dSi	Shrublands; dryandra scrub
Si-06a	dSi	Shrublands; dryandra scrub
Si-07	mSi	Shrublands; teatree scrub
Si-07a	mSi	Shrublands; teatree scrub
Si-08	eaSi	Shrublands; mallee & acacia scrub or thicket on coastal dunes
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes
Si-08b	eaSi	Shrublands; mallee & acacia scrub on ?coastal dunes
Si-08c	eaSc	Shrublands; mallee & acacia thicket on ?coastal dunes
Si-09	e6Si	Shrublands; York gum & related species mallee scrub
Si-09a	e6Si	Shrublands; York gum mallee scrub
Si-09b	e6,19Si	Shrublands; York gum & <i>Eucalyptus gongiocarpa</i> mallee scrub
Si-09c	e6,39Si	Shrublands; York gum & <i>Eucalyptus sheathiana</i> mallee scrub
Si-10	e9,Si	Shrublands; mallee scrub, <i>Eucalyptus longicornis</i>
Si-10a	e9,39Si	Shrublands; mallee scrub, <i>Eucalyptus longicornis</i> & <i>E.sheathiana</i>
Si-11	e16Si	Shrublands; mallee scrub, <i>Eucalyptus eremophila</i>
Si-11a	e15Si	Shrublands; mallee scrub, <i>Eucalyptus eremophila</i>
Si-11b	e15,22Si	Shrublands; mallee scrub, <i>Eucalyptus eremophila</i> & red mallee
Si-11c	e15,24Si	Shrublands; mallee scrub, <i>Eucalyptus eremophila</i> & bloodwood <i>E. dichromophloia</i>
Si-11d	e15,27Si	Shrublands; mallee scrub, <i>Eucalyptus eremophila</i> & black marlock
Si-11e	e15,32Si	Shrublands; mallee scrub, <i>Eucalyptus eremophila</i> & Forrest's marlock
Si-12	e70Si	Shrublands; mallee scrub, <i>Eucalyptus eudesmoides</i>
Si-12a	e70Si	Shrublands; mallee scrub, <i>Eucalyptus eudesmoides</i>
Si-13	e27Si	Shrublands; mallee scrub, black marlock, (<i>Eucalyptus redunca</i>) & related spp
Si-13a	e27Si	Shrublands; mallee scrub, black marlock
Si-13b	e27,67Si	Shrublands; mallee scrub, black marlock & <i>Eucalyptus decipiens</i>
Si-13c	e67Si	Shrublands; mallee scrub, black marlock & <i>Eucalyptus decipiens</i>
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock
Si-13e	e10Si	Shrublands; mallee scrub, redwood
Si-14	e28Si	Shrublands; mallee scrub <i>Eucalyptus nutans</i>
Si-14a	e28Si	Shrublands; mallee scrub <i>Eucalyptus nutans</i>
Si-15	eSi (other)	Shrublands; Shrublands; mallee other e22,30,31,36,37,38,43
Si-15a	e22Si	Shrublands; mallee scrub, red mallee
Si-15b	e30Si	Shrublands; mallee scrub, blue mallee (<i>Eucalyptus socialis</i>)

Appendix 1 Table 1 continued

Si-15c	e31Si	Shrublands; mallee scrub, white mallee (<i>Eucalyptus cooperana</i>)
Si-15d	e37,38Si	Shrublands; mallee scrub, bushy yate & Bald I. marlock
Si-15e	e43Si	Shrublands; mallee scrub, <i>Eucalyptus dongarrensis</i>
Si-15f	eSi	Shrublands; mallee scrub (Great Victoria Desert)
Si-15g	eSi	Shrublands; mallee scrub (Nullabor) e30,31,36
Si-15h	eSi	Shrublands; mallee scrub (e19 is near)
Sr-01	a1nSr	Shrublands; mulga open scrub also with a9
Sr-01a	a1Sr	Shrublands; mulga open scrub
Sr-01b	a1,9Sr	Shrublands; mulga & bowgada open scrub
Sr-02	aSr	Shrublands; acacia open scrub a8,10,11,21,23
Sr-02a	a8,10Sr	Shrublands; <i>Acacia sclerosperma</i> & <i>A. victoriae</i> open scrub
Sr-02b	a10,11Sr	Shrublands; <i>Acacia victoriae</i> & snakewood open scrub
Sr-02c	a21Sr	Shrublands; <i>Acacia ligulata</i> open scrub
Sr-02d	a23Sr	Shrublands; <i>Acacia rostellifera</i> open scrub
Sp-01	aSp	Shrublands; acacia patchy/sparse scrub a1,8,10,11,17
Sp-01a	a1,17Sp	Shrublands; mulga & minneritchie scattered groups
Sp-01b	a8Sp	Shrublands; <i>Acacia sclerosperma</i> sparse scrub
Sp-01c	a8,10Sb	Shrublands; <i>Acacia sclerosperma</i> & <i>A. victoriae</i> scrub, barren
Sp-01e	a8,10,11,Sp	Shrublands; <i>Acacia sclerosperma</i> , <i>A. victoriae</i> & snakewood scrub patches
Sp-01f	a10,11Sp	Shrublands; <i>A. victoriae</i> & snakewood scrub patches
Sp-01g	aSp	Shrublands; acacia patchy scrub a?
Sp-02	mSp	Shrublands; melaleuca patchy scrub
Sp-02a	mSp	Shrublands; melaleuca patchy scrub
SZ-01	eSZc	Shrublands; mallee-heath e2,26,65
SZ-01a	e2SZc	Shrublands; jarrah mallee-heath
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath
SZ-01c	e29SZc	Shrublands; <i>Eucalyptus incrassata</i> mallee-heath
SZ-01d	e65SZc	Shrublands; Albany blackbutt mallee-heath
SZ-01e	enSZc	Shrublands; mallee-heath (Stirling Ra.)
SZ-01f	eSZc	Shrublands; mallee-heath (Nuytsland)
SZ-02	aSZc	Shrublands; acacia scrub-heath
SZ-02a	a21SZI	Shrublands; <i>Acacia ligulata</i> scrub-heath
SZ-02b	a23SZc	Shrublands; <i>Acacia rostellifera</i> scrub-heath
SZ-02c?	aSZc	Shrublands; Acacia scrub-heath a?
SZ-03	xSZc	Shrublands; scrub heath

Appendix 1 Table 1 continued

SZ-03a	x2SZc	Shrublands; scrub-heath on coastal association
SZ-03b	x3SZc	Shrublands; scrub-heath on sandplain
SZ-03c	x4SZc	Shrublands; scrub-heath on lateritic sandplain
SZ-03d	x5SZc	Shrublands; scrub-heath on deep sandy flats
SZ-03f	x6SZc	Shrublands; scrub-heath
SZ-03g	x7SZc	Shrublands; scrub-heath on lateritic sandhills
SZ-03h	x8SZc	Shrublands; scrub-heath on sandplain
SZ-03i	x9SZc	Shrublands; scrub-heath
SZ-03j	xSZc	Shrublands; scrub-heath
SZ-04	hSZc	Shrublands; hakea scrub-heath
SZ-04a	hSZc	Shrublands; hakea scrub-heath
Zc-01	xZc	Shrublands; heath x=a26,m4,d
Zc-01a	a26m4Zc	Shrublands; <i>Acacia lasiocarpa</i> & <i>Melaleuca acerosa</i> heath
Zc-01b	m4Zc	Shrublands; melaleuca heath
Zc-01c	jZc	Shrublands; <i>Jacksonia horrida</i> heath
Zc-01d	x1Zc	Shrublands; heath on coastal limestone
Zc-01e	xZc	Shrublands; mixed heath
Zc-02	dZc	Shrublands; dryandra heath
Zc-02a	dZc	Shrublands; dryandra heath
ZI-01	xZI	Shrublands; dwarf scrub a3,eremophila,cassia
ZI-01a	scZI	Shrublands; eremophila and cassia dwarf scrub
ZI-01b	xZI	Shrublands; dwarf scrub on granite (South coast)
ZI-01c	xZI	Shrublands; dwarf scrub (Dirk Hartog I)
ZI-01d	a3ZI	Shrublands; dwarf waterwood (<i>Acacia coriacea</i>) shrubs on recent dunes
Zr-01a	xZr	Shrublands; open dwarf scrub on recent dunes (Pilbara coast)
Zr-01a	xZr	Shrublands; open dwarf scrub, waterwood (<i>Acacia coriacea</i>) on recent dunes (Pilbara coast)
Zp-01a	xZp	Shrublands; patches of low scrub
Zp-01a	xZp	Shrublands; patches of low mixed scrub
P-01	eMi aSc p3Gi	Shrublands, pindan; acacia shrubland with co-dominant medium tree layer over spinifex e49,51,52,53, a29, c,t11=p3
P-01a	e49,51Mi a29Sc ct11Gi	Shrublands, pindan; <i>Acacia tumida</i> shrubland with woollybutt & cabbage gum medium woodland over ribbon grass & ?curly spinifex
P-01b	e50,51Mi a29Sc ct11Gi	Shrublands, pindan; <i>Acacia tumida</i> shrubland with grey box & cabbage gum medium woodland over ribbon grass & ?curly spinifex
P-01c	e52,53Mi a29Sc pGi	Shrublands, pindan; <i>Acacia tumida</i> shrubland with ghost gum & <i>E. setosa</i> medium woodland over curly spinifex
P-01d	eMi aSc p3Gi	Shrublands, pindan; acacia shrubland with eucalypt medium woodland over <i>Plectrachne pungens</i>
P-02	xLr aSc tpHi or pGi	Shrublands, pindan; acacia shrubland with scattered low trees over spinifex a5,28,29,30 e24,53,58,59 t1,4,11 p3 c
P-02a	e24,53Lr a28Sc t1,11Hi	Shrublands, pindan; <i>Acacia eriopoda</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over soft & ?curly spinifex

Appendix 1 Table 1 continued

P-02b	e24,53Lr a29Sc t11Gi	Shrublands, pindan; <i>Acacia tumida</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over curly spinifex
P-02c	e24,53Lr a29Sc ct11Gi	Shrublands, pindan; <i>Acacia tumida</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over ribbon & curly spinifex
P-02e	e24,53Lr a28,29Sc ct11Gi	Shrublands, pindan; <i>Acacia eripoda</i> & <i>A. tumida</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over ribbon & curly spinifex
P-02f	e24,53Lr a29,30Sc t11Gi	Shrublands, pindan; <i>Acacia tumida</i> & <i>A. impressa</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over ribbon & curly spinifex
P-02g	e24,58Lr a29,30Sc t11Gi	Shrublands, pindan; <i>Acacia tumida</i> & <i>A. impressa</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over ribbon & curly spinifex
P-02h	e59Lr a28,29Sc t11Gi	Shrublands, pindan; <i>Acacia eripoda</i> & <i>A. tumida</i> shrubland with scattered low <i>Eucalyptus confertifolia</i> over ribbon & curly spinifex
P-02i	be24Lb a5,28Sc t11Hi	Shrublands, pindan; <i>Acacia pachycarpa</i> & <i>A. eripoda</i> shrubland with sparse low ?bauhinia & bloodwood over ribbon & curly spinifex
P-02j	bgLr a5,28Sc t1,4Hi	Shrublands, pindan; <i>Acacia pachycarpa</i> & <i>A. eripoda</i> shrubland with sparse low ?bauhinia & grevillea over <i>Triodia pungens</i> & <i>T. intermedia</i>
P-02k	no code	Shrublands, pindan; acacia shrubland with scattered low trees over spinifex
P-02l	xLr a Sc t tpHi	Shrublands, pindan; acacia shrubland with scattered low trees over spinifex
KGM-01	eMi s1,2,Gc	Grasslands, high grass savanna woodland; white grass & upland tall grass (KIMB)
KGM-01a	e24,48,49Mi s1,2Gc	Grasslands, high grass savanna woodland; bloodwood, stringybark & woollybutt over white grass on sandstone (usually with t11)
KGM-01b	e50,51Mi s1,2Gc	Grasslands, high grass savanna woodland; grey box & cabbage gum over white grass
KGM-01c	e50,51Mi xGc/s1,2Gc	Grasslands, high grass savanna woodland; grey box & cabbage gum over mixed/white grass
KGM-01d	e50,51Mi xGc	Grasslands, high grass savanna woodland; grey box & cabbage gum over mixed/white grass on basalt and dolerite
KGM-01e	e51,52Mi xGc	Grasslands, high grass savanna woodland; cabbage gum & ghost gum over mixed/white grass, riverain
KGM-01f	eMi s1,2Gc	Grasslands, high grass savanna woodland; white grass
KGM-02	eMi s2t(p)Gc	Grasslands, high grass savanna woodland; upland tall grass & curly spinifex (KIMB)
KGM-02a	e24Mi s2t11Gc	Grasslands, high grass savanna woodland; bloodwood over upland tall grass & curly spinifex
KGM-02b	e24,48Mi ps2Gc	Grasslands, high grass savanna woodland; bloodwood & stringybark over upland tall grass & curly spinifex
KGM-02c	e24,48Mi sat11Gc	Grasslands, high grass savanna woodland; bloodwood & stringybark over ?upland tall grass, mitchell grass & curly spinifex
KGM-02d	e24,49Mi s2,t11Gc	Grasslands, high grass savanna woodland; bloodwood & woollybutt over upland tall grass & curly spinifex
KGM-02e	e24,48,49Mi s2t11Gc	Grasslands, high grass savanna woodland; bloodwood, stringybark & woollybutt over upland tall grass & curly spinifex on sandplain
KGM-02f	e48,49Mi ps2Gc	Grasslands, high grass savanna woodland; stringybark & woollybutt over upland tall grass & curly spinifex
KGM-02g	e48,49Mi s2,t11Gc	Grasslands, high grass savanna woodland; stringybark & woollybutt over upland tall grass & curly spinifex
KGM-02h	e50,62Mi s2t11Gc	Grasslands, high grass savanna woodland; ghost gum & <i>E. foelscheana</i> over upland tall grass & curly spinifex on basalt
KGM-02i	e51,62Mi s2t11Gc	Grasslands, high grass savanna woodland; cabbage gum & <i>E. foelscheana</i> over upland tall grass & curly spinifex on basalt
KGM-03	eMi snGc	Grasslands, high grass savanna woodland; white grass &/or tall upland grass & others n= k,c,t. (KIMB)
KGM-03a	e50,59,62Mi ks1,2Gc	Grasslands, high grass savanna woodland; grey box, <i>E.confertifolia</i> & <i>E. foelscheana</i> over kangaroo, white & tall upland grass on sandy plain on limestone
KGM-03b	e50,62Mi ks1Gc	Grasslands, high grass savanna woodland; grey box & <i>E. foelscheana</i> over kangaroo & white grass
KGM-03c	e52,57Mi ts2Gc	Grasslands, high grass savanna woodland; ghost gum & bloodwood (<i>E. polycarpa</i>) over ? <i>triodia</i> &tall upland grass
KGM-03d	e52,57Mi cs2Gc	Grasslands, high grass savanna woodland; ghost gum & bloodwood (<i>E. polycarpa</i>) over ribbon &tall upland grass
KGM-03e	eMi ca2Gc	Grasslands, high grass savanna woodland; eucalypts over ribbon &tall upland grass
KGI-01	xLr s2nGc	Grasslands, high grass savanna low tree; b,e16,m,t, over upland tall grass & others n=d,t11

Appendix 1 Table 1 continued

KGI-01a	tLr ds2Gc	Grasslands, high grass savanna low tree; terminalia over upland tall grass & blue grass
KGI-01b	tbLr s2Gc	Grasslands, high grass savanna low tree; terminalia & ?bauhinia over upland tall grass
KGI-01c	mLr s2Gc	Grasslands, high grass savanna low tree; melaeuca over upland tall grass
KGI-01d	e16Lb s2t11Gc	Grasslands, high grass savanna sparse low tree; snappy gum over upland tall grass & curly spinifex on granite
KGI-02	eLr sGc	Grasslands, high grass savanna low tree; eucalypts e=54,61 over white grass &/or upland tall grass(KIMB)
KGI-02a	e24,50Lr s1,2Gc	Grasslands, high grass savanna low tree; bloodwood (<i>E. dichromophloia</i>) & grey box over white grass &/or upland tall grass.
KGI-02b	e50,51Lr s1,2Gc	Grasslands, high grass savanna low woodland; grey box & cabbage gum over white grass &/or upland tall grass.
KGI-02c	e54,61Lr s2Gc	Grasslands, high grass savanna low tree; Mt House box & bloodwood (<i>E. terminalis</i>) over upland tall grass.
KGI-02d	e54,61Lr ts1Gc	Grasslands, high grass savanna low tree; Mt House box & bloodwood (<i>E. terminalis</i>) over white grass on rolling basalt country
KG-01	be17Lb ads2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over mitchell, blue & tall upland grasses (KIMB)
KG-01a	be17Lb ads2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over mitchell, blue & tall upland grasses
KG-01b	be17Lb ds2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over blue & tall upland grasses on black soil plain
KG-02	s2Gc	Grasslands; high grass savanna, white grass (KIMB)+F583
KG-02a	s2Gc	Grasslands; high grass savanna, white grass
kGM-01	eMi cGc	Grasslands, tall bunch grass savanna woodland, e50,51 over ribbon grass & some blue grass (KIMB)
kGM-01a	e50,51Mi cGc	Grasslands, tall bunch grass savanna woodland, grey box & cabbage gum over ribbon grass
kGM-01b	e50,51Mi cdGc	Grasslands, tall bunch grass savanna woodland, grey box & cabbage gum over ribbon & blue grass
kGm-01	e17Mr cGc	Grasslands, tall bunch grass savanna open woodland, coolabah (also e52,57) over ribbon/blue grass (+a2,d) (KIMB)
kGm-01a	e17Mr cGc	Grasslands, tall bunch grass savanna woodland, coolebah over ribbon grass
kGm-01b	e17Mr cdGc	Grasslands, tall bunch grass savanna woodland, coolebah over ribbon/blue grass
kGm-01c	e52,17Mr cGc	Grasslands, tall bunch grass savanna woodland, coolebah & ghost gum over ribbon grass
kGm-01d	e57Mr a2Gc	Grasslands, tall bunch grass savanna woodland, bloodwood (<i>E. polycarpa</i>) over aristida grass riverine
kGL-01	eLi cGc	Grasslands, tall bunch grass savanna low woodland, grey box & cabbage gum over ribbon grass (KIMB)+F596
kGL-01a	e50,51Lj cGc	Grasslands, tall bunch grass savanna low woodland, grey box & cabbage gum over ribbon grass
kGI-01	eLr cGc	Grasslands, tall bunch grass savanna low tree; e16,24,50,51,60, over ribbon grass & some blue & aristida grass (KIMB)+F596
kGI-01a	e16Lr cGc	Grasslands, tall bunch grass savanna low tree; snappy gum over ribbon grass
kGI-01b	e24Lr cGc	Grasslands, tall bunch grass savanna low tree; bloodwood (<i>E. dichromophloia</i>) over ribbon grass
kGI-01c	e16,24Lr cGc	Grasslands, tall bunch grass savanna low tree; snappy gum & bloodwood (<i>E. dichromophloia</i>) over ribbon grass
kGI-01d	e24,51Lr cGc	Grasslands, tall bunch grass savanna low tree; bloodwood (<i>E. dichromophloia</i>) & cabbage gum over ribbon grass
kGI-01e	e50,61Lr a2cGc	Grasslands, tall bunch grass savanna low tree; grey box & bloodwood (<i>E. terminalis</i>) over aristida & ribbon grass on sandy plain
kGI-01f	e51,60Lr a2cGc	Grasslands, tall bunch grass savanna low tree; cabbage gum & silverleaved box over aristida & ribbon grass on sandy plains
kGI-01g	e51,57Lr cdGc	Grasslands, tall bunch grass savanna low tree; cabbage gum & bloodwood (<i>E. polycarpa</i>)over ribbon & blue grass on sandy plains
kGI-02	b3Lr cGc	Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia &/or, beefwood over ribbon grass (+a,d,t1,t11) (KIMB)
kGI-02a	b3Lr cGc	Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over ribbon grass
kGI-02b	b3Lr cdGc	Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over ribbon & blue grass

Appendix 1 Table 1 continued

kGI-02d	b3Lr t1,11cGc	Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over ribbon grass & spinifex
kGI-03	mLr cGc	Grasslands, tall bunch grass savanna sparse low tree; paperbarks over ribbon grass (KIMB)
kGI-03a	mLr cGc	Grasslands, tall bunch grass savanna, sparse low tree; ribbon grass & paperbarks
kG-01	tLb a1Gc	Grasslands, tall bunch grass savanna, sparse low tree; terminalia over mitchell (+d) (KIMB)
kG-01a	tLb a1Gc	Grasslands, tall bunch grass savanna, sparse low tree, terminalia; mitchell grass
kG-01b	tLb adGc	Grasslands, tall bunch grass savanna, sparse low tree, terminalia; ?mitchell & blue grass on basalt
KG-02	xLb aGc/cdGc	Grasslands, tall bunch grass savanna sparse low tree; e17,b,a27 over mitchell & ribbon/blue grass on black soil (KIMB)+F618
KG-02a	a27b1Lb a1Gc/cdGc	Grasslands, tall bunch grass savanna sparse low tree; <i>Acacia suberosa</i> & ?bauhinia over mitchell & ribbon/blue grass on black soil
KG-02b	bLr aGc/cdGc	Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over mitchell & ribbon/blue grass on black soil
KG-02c	xLb aGc/cdGc	Grasslands, tall bunch grass savanna low tree; x? over mitchell & ribbon/blue grass on black soil
KG-02d	a27Lb aGc	Grasslands, tall bunch grass savanna sparse low tree; <i>Acacia suberosa</i> over mitchell grass on black soil
KG-02e	a27bLb cdGc	Grasslands, tall bunch grass savanna sparse low tree; <i>Acacia suberosa</i> & bauhinia over ribbon/blue grass on black soil
KG-02f	be17Lb cdGc	Grasslands, tall bunch grass savanna sparse low tree; bauhinia & coolabah over ribbon/blue grass on black soil
KG-02g	be17Lb cGc	Grasslands, tall bunch grass savanna sparse low tree; bauhinia & coolabah over ribbon grass on black soil
KG-02h	be17Lr cGc	Grasslands, tall bunch grass savanna low tree; bauhinia & coolabah over ribbon grass on black soil
KG-02i	xLb cdGc	Grasslands, tall bunch grass savanna low tree; x? over ribbon/blue grass on black soil
KG-02j	aLr xGc	Grasslands, tall bunch grass savanna sparse low tree; acacia over ?grass on black soil
KG-03	aGc/adGc	Grasslands, tall bunch grass savanna, mitchell & ribbon/blue grass (KIMB)
KG-03a	aGc/cdGc	Grasslands, tall bunch grass savanna, mitchell & ribbon/blue grass
KG-03b	aGc adGc	Grasslands, tall bunch grass savanna, mitchell & mitchell/blue grass
KG-03c	aGc	Grasslands, tall bunch grass savanna, mitchell & blue grass
KG-03d	cdGc	Grasslands, tall bunch grass savanna, ribbon/blue grass
Kgl-01	e54,61Lr egc	Grasslands, short bunch grass savanna low tree; Mt House box & bloodwood over enneapogon short grass (KIMB)+F641
Kgl-01a	e54,61Lr egc	Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass
Kgl-02	e16Lr egc	Grasslands, short bunch grass savanna low tree; snappy gum (+e61) over enneapogon short grass (KIMB)
Kgl-02a	e16Lr eGc	Grasslands, short bunch grass savanna low tree; snappy gum over enneapogon short grass on plains
Kgl-02b	e16Lb eGc	Grasslands, short bunch grass savanna sparse low tree; scattered snappy gum over enneapogon short grass on plains
Kgl-02c	e16,61Lr eGc	Grasslands, short bunch grass savanna low tree; snappy gum & bloodwood (E. terminals) over enneapogon short grass on plains
KgL-03	bLragc	Grasslands, short bunch grass savanna low tree; bauhinia over short grasses (KIMB)
KgL-03a	bLr a3gc	Grasslands, short bunch grass savanna low tree; bauhinia over <i>Aristida prunosa</i> short grasses on plains
KgL-03b	bLr a28,30Sp a2Gc (g)	Grasslands, short bunch grass savanna low tree & sparse shrubs; bauhinia & <i>Acacia eriopoda</i> & <i>A. impressa</i> over <i>Aristida brownii</i> short grasses on river flats
KgL-03c	bLr a24,30Sc agl	Grasslands, short bunch grass savanna low tree & acacia thicket; bauhinia & <i>Acacia</i> ? & <i>A. impressa</i> over <i>aristida</i> short grasses on river flats ?shrublands
Kg-01	egc	Grasslands, short bunch grass savanna; annual grasses on dry plains (KIMB)

Appendix 1 Table 1 continued

Kg-01a	egc	Grasslands, short bunch grass savanna, grass; annual grasses (<i>Enneapogon</i> species) on dry plains
Kg-02	s3gc	Grasslands, short bunch grass savanna; salt water grassland (KIMB)
Kg-02a	s3gc	Grasslands, short bunch grass savanna, grass; salt water grassland <i>Sporobous virginicus</i>
kgM-01	eMi p3Gc	Grasslands, curly spinifex, tree savanna woodland; e16,24, p3=t11 (KIMB)
kgM-01a	e16,24Mi t11Gc	Grasslands, curly spinifex, tree savanna woodland; snappy gum & bloodwood over curly spinifex on limestone plateau
kgM-01b	e24Mi t11Gc	Grasslands, curly spinifex, tree savanna woodland; snappy gum & bloodwood over curly spinifex on limestone plateau
kgL-01	eLi p3Gc	Grasslands, curly spinifex, low tree savanna woodland; e16,55,56 (KIMB)
kgL-01a	e55,56Li p3Gc	Grasslands, curly spinifex, low tree savanna woodland; gnainger & <i>Eucalyptus ferruginea</i> over <i>Plectrachne pungens</i>
kgL-01b	e16Li t11Gc	Grasslands, curly spinifex, low tree savanna woodland; snappy gum over curly spinifex on sandstone
kgL-01	eLr p3Gc	Grasslands, curly spinifex, low tree savanna; e16,24,49,58,b (KIMB)
kgl-01a	e16Lr t11Gc	Grasslands, curly spinifex, low tree savanna; snappy gum over curly spinifex
kgl-01b	e16,24Lr t11Gc	Grasslands, curly spinifex, low tree savanna; snappy gum & bloodwood (<i>E.dichromophloia</i>) over curly spinifex
kgl-01c	e16,58Lr p3Gc	Grasslands, curly spinifex, low tree savanna; snappy gum & <i>E. perfoliata</i> over <i>Plectrachne pungens</i>
kgl-01d	e24Lr t11Gc	Grasslands, curly spinifex, low tree savanna; bloodwood (<i>E.dichromophloia</i>) over curly spinifex
kgl-01e	e24,49Lr pGc	Grasslands, curly spinifex, low tree savanna; bloodwood (<i>E.dichromophloia</i>) & woollybutt over <i>Plectrachne pungens</i> on islands
kgl-01f	bLr t11Gc	Grasslands, curly spinifex, low tree savanna; bauhinia over <i>Plectrachne</i> sp.
kgl-02	e16Lr ep3Gc	Grasslands, curly spinifex & short grass low tree savanna; e=16,24 (KIMB)
kgl-02a	e16Lr ep3Gc	Grasslands, curly spinifex & short grass low tree savanna; snappy gum over enneapogon & <i>Plectrachne pungens</i>
kgl-02b	e16,24Lr et11Gc	Grasslands, curly spinifex & short grass low tree savanna; snappy gum & bloodwood (<i>E.dichromophloia</i>) over enneapogon & curly spinifex on granite
kg-01	al.b p4 Gi	Grasslands; sparse low tree savanna; ? <i>Andersonia gregorii</i> over <i>Plectrachne bynoei</i> (KIMB)
kg-01a	al.b p4 Gi	Grasslands; sparse low tree savanna; ? <i>Andersonia gregorii</i> over <i>Plectrachne bynoei</i>
GM-01	eMi xGc	Sedgeland; sedges with medium woodland; sedges with coolabah over sedges
GM-01a	e17Mi xGc	Sedgeland; sedges with medium woodland; sedges with coolabah over various sedges
Gm-01	eMr xGc	Sedgeland; sedges with open medium woodland or scattered medium trees e17,18
Gm-01a	e17Mr xGc	Sedgeland; sedges with scattered medium trees; coolabah over various sedges & forbes
Gm-01b	e17,18Mr xGc	Sedgeland; sedges with scattered medium trees; coolabah & river gum over various sedges
GL-01	eLi xGc	Sedgeland; sedges with low tree savanna woodland; coolabah over various sedges
GL-01a	e17,Li xGc	Sedgeland; sedges with low tree savanna woodland; coolabah over various sedges
GL-01b	e17,50Li tGc	Sedgeland; sedges with low tree savanna woodland; coolabah & grey box over & various sedges
GI-01	eLr xGc	Sedgeland; sedges with open low trees e17,40
GI-01a	e17Lr xGc	Sedgeland; sedges with open low trees; coolabah over various sedges (Millstream)
GI-01b	e40Lr xGc	Sedgeland; sedges with open low tree sananna; <i>Eucalyptus</i> sp. aff <i>aspera</i> over various sedges
Gc-01	xGc south	Sedgeland (mainly in the south-west)
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath

Appendix 1 Table 1 continued

Gc-02	xGc north	Short bunch grassland - savanna /grass plain
Gc-02a	xGc	Short bunch grassland - savanna /grass plain (Pilbara)
Gc-02b	xGc	Grass savanna on clay plains (Tanami)
Gc-02c	a11Sp xGc	Sedgeland; Various sedges with very sparse snakewood
HM-01	cMi t1Hi	Hummock grasslands, tree steppe; desert oak & soft spinifex,
HM-01a	cMi t1Hi	Hummock grasslands, tree steppe; desert oak & soft spinifex (<i>Casuarina decaisneana</i> , <i>Triodia pungens</i>)
HM-01b	cMi t1Hi	Hummock grasslands, tree steppe; desert oak & soft spinifex between sandhills
Hm-01	cMr t1Hi	Hummock grasslands ,open tree steppe; desert oak & spinifex between sandhills
Hm-01a	c1Mr t2Hi	Hummock grasslands, open tree steppe; <i>Casuarina decaisneana</i> & hard spinifex between sandhills
HL-01	e60Ll p3Hi	Hummock grasslands, low tree steppe; silver-leaved box & melaleuca over plectrachne
HL-01a	me60Ll t11Hi	Hummock grasslands, low tree steppe; silver-leaved box & melaleuca over plectrachne
HI-01	eLr t1Hi	Hummock grasslands, open low tree steppe; eucalypts e16,24 over soft spinifex <i>Triodia pungens</i>
HI-01a	e16Lr t1Hi	Hummock grasslands, open low tree steppe; snappy gum over soft spinifex <i>Triodia pungens</i>
HI-01b	e16,24Lr t1Hi	Hummock grasslands, open low tree steppe; snappy gum & bloodwood over soft spinifex <i>Triodia pungens</i>
HI-01c	e24Lr t1Hi	Hummock grasslands, open low tree steppe; bloodwood over soft spinifex <i>Triodia pungens</i>
HI-01d	e24Lr a2Sp t1Hi	Hummock grasslands, open low tree steppe; bloodwood with sparse kanji shrubs over soft spinifex <i>Triodia pungens</i>
HI-01e	eLr t1Hi	Hummock grasslands, open low tree steppe; eucalypts over soft spinifex <i>Triodia pungens</i>
HI-02	eLr t3Hi	Hummock grasslands, open low tree steppe; eucalypts 16,24 (+t) over <i>Triodia wiseana</i>
HI-02a	e16Lr t3Hi	Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i>
HI-02b	e24Lr t3Hi	Hummock grasslands, open low tree steppe; bloodwood over <i>Triodia wiseana</i>
HI-02c	tLr t3Hi	Hummock grasslands, open low tree steppe; terminalia over <i>Triodia wiseana</i> on limestone
HI-03	eLr p(t11)Hi	Hummock grasslands, open low tree steppe; eucalypts 18,23,24 over curly spinifex
HI-03a	e16Lr t11Hi	Hummock grasslands, open low tree steppe; snappy gum over curly spinifex
HI-03b	e23Lr pHl	Hummock grasslands, open low tree steppe; desert bloodwood and feathertop spinifex on sandhills
HI-03c	e24Lr t11Hi	Hummock grasslands, open low tree steppe; bloodwood <i>Eucalyptus dichromophloia</i> and spinifex
HI-03d	eLr pHl	Hummock grasslands, open low tree steppe; eucalypts and feathertop spinifex in sandy valleys (often with aSp t1Hi)
HI-03e	eLr t11Hi	Hummock grasslands, open low tree steppe; eucalypts over spinifex on laterite sand plains
HI-03f	eLr t11Hr	Hummock grasslands, open low tree steppe; scattered low rare eucs in spinifex
HI-03g	eLrt pHl	Hummock grasslands, open low tree steppe; eucalypts(e23) over soft (t1?) & feather spinifex between sandhills
HI-04	eLr tn,pHl	Hummock grasslands, open low tree steppe; eucalypts e=16,24,43,47,54 over spinifex t=1,3,4,5,6,9,11,14
HI-04a	e16,24Lr t1,3Hi	Hummock grasslands, open low tree-steppe; snappy gum & bloodwood over <i>Triodia pungens</i> & <i>T. wiseana</i>
HI-04b	e24Lr t1,3Hi	Hummock grasslands, open low tree-steppe; bloodwood over <i>Triodia pungens</i> & <i>T. wiseana</i>
HI-04c	e16Lr t1,4Hi	Hummock grasslands, open low tree-steppe; snappy gum over <i>Triodia pungens</i> & <i>T. intermedia</i>
HI-04d	e16Lr t3,4Hi	Hummock grasslands, open low tree-steppe; snappy gum over <i>Triodia wiseana</i> & <i>T. intermedia</i>
HI-04e	e16Lr t4Hi	Hummock grasslands, open low tree-steppe; snappy gum over <i>Triodia intermedia</i>

Appendix 1 Table 1 continued

HI-04f	e16Lr t5Hi	Hummock grasslands, open low tree-steppe; snappy gum over <i>Triodia Imitis</i>
HI-04g	e16Lr t1/6Hi	Hummock grasslands, open low tree-steppe; snappy gum over <i>Triodia pungens</i> & <i>T. brizoides</i>
HI-04h	e43,47Lr t9Hi	Hummock grasslands, open low tree-steppe; <i>Eucalyptus dongarraensis</i> & <i>E. foecunda</i> over <i>T. plurinervata</i>
HI-04i	e16,54Lr t1,11Hi	Hummock grasslands, open low tree-steppe; snappy gum & Mt House box over soft spinifex on shale plains
HI-04j	eLr t/pHi	Hummock grasslands, open low tree-steppe; eucalypts over soft and feathertop spinifex between sandhills
HI-04k	e24Lrt11,14Hi	Hummock grasslands, open low tree-steppe; snappy gum over curly & ? spinifex (t14=?)
HI-05	bgLr t1Hi	Hummock grasslands, open low tree steppe; ?bauhinia & <i>Grevillea sticta</i> over soft spinifex
HI-05a	bgLr t1Hi	Hummock grasslands, open low tree steppe; ?bauhinia & <i>Grevillea sticta</i> over soft spinifex
HI-06	oLr t1Hi	Hummock grasslands, open low tree steppe; desert walnut over soft spinifex between sandridges
HI-06a	oLr t1Hi	Hummock grasslands, open low tree steppe; desert walnut over soft spinifex between sandridges
HI-06b	oLr t/pHi	Hummock grasslands, open low tree steppe; desert walnut over spinifex/plectrachne on sandplain
HI-07	a1c2Lr t2Hi	Hummock grasslands, open low tree steppe; mulga, casuarina & hard spinifex
HI-07a	a1c2Lr t2Hi	Hummock grasslands, open low tree steppe; mulga, <i>Allocasuarina cristata</i> & hard spinifex between sand ridges
HI-08	a1Lr tHi	Hummock grasslands, open low tree steppe; mulga over spinifex
HI-08a	a1Lr t8Hi	Hummock grasslands, open low tree steppe; mulga over <i>T. scariosa</i>
HI-08b	a1,11Lr t1,2Hi	Hummock grasslands, open low tree steppe; mulga & snakewood over <i>T. pungens</i> & <i>T. basedowii</i>
HIs-01	eLr aSr tHi	Hummock grasslands, low open/sparse tree and shrub steppe, eucalypts & acacia over spinifex
HIs-01a	e24Lr a2Sr t1Hi	Hummock grasslands, low open tree & shrub steppe; bloodwood, kanji over soft spinifex
HIs-01b	eLr a5Sr t2Hi	Hummock grasslands, low open tree & shrub steppe; scattered eucalypts, <i>Acacia pachycarpa</i> over <i>Triodia basedowii</i>
HIs-01c	e16Lb a5,10Sr t1,6Hi	Hummock grasslands, low open tree & shrub steppe; sparse snappy gum, <i>Acacia pachycarpa</i> & <i>A. victoria</i> over <i>Triodia pungens</i> & <i>T. brizoides</i> on chert
HIs-01d	e16Lb a5,10Sr t6Hi	Hummock grasslands, low open tree & shrub steppe; sparse snappy gum, <i>Acacia pachycarpa</i> & <i>A. victoria</i> over <i>T. brizoides</i> on chert
HIs-02	eLreSrtHi	Hummock grasslands, open tree and mallee steppe; eucalypts over & hard spinifex <i>Triodia basedowii</i>
Hms-01a	e19Mr e20Sr t2Hi	Hummock grasslands, open medium tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i>
HIs-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i>
HIs-02c	e19Lp e21Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. kinsmillii</i>) over hard spinifex <i>Triodia basedowii</i>
HIs-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i>
HS-01	eSi t8Hi	Hummock grasslands, mallee steppe; mallees & spinifex
HS-01a	e22Si t8Hi	Hummock grasslands, mallee steppe; red mallee over spinifex <i>Triodia scariosa</i>
HS-01	axSr p,tHi	Hummock grasslands, shrub steppe; <i>Acacia</i> over spinifex a=3,5,9,11 x= grevillea, hakea; t=2,p
HS-01a	a3hS rt2Hi	Hummock grasslands, shrub steppe; <i>Acacia coriacea</i> & hakea over hard spinifex <i>Triodia basedowii</i>
HS-01b	a9,11Sr t2Hi	Hummock grasslands, shrub steppe; bowgada & snakewood over <i>T. basedowii</i>
HS-01c	a5g1Sr t1,4Hi	Hummock grasslands, shrub steppe; <i>Acacia pachycarpa</i> & grevillea over <i>Triodia pungens</i> & <i>T. intermedia</i> on sandy plateau
HS-01d	anSr t1Hi	Hummock grasslands, shrub steppe; mixed shrubs over soft spinifex <i>Triodia pungens</i>
HS-01e	a/nSr t/pHi	Hummock grasslands, shrub steppe; mixed shrubs over spinifex between sandhills

Appendix 1 Table 1 continued

Hs-01f	aSr p2Hi	Hummock grasslands, shrub steppe; acacia species over <i>Plectrachne melvillei</i>
Hs-02	aSr t1Hi	Hummock grasslands, shrub steppe; <i>Acacia</i> over soft spinifex $a=2,3,4,5,10,11,28,29$
Hs-02a	a2Sr t1Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i> (+?grevillea)
Hs-02b	a2Sr t1Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i> (+?grevillea) between sand ridges
Hs-02c	a2,11Sr t1Hi	Hummock grasslands, shrub-steppe; kanji & snakewood over <i>Triodia pungens</i>
Hs-02d	a3Sr t1Hi	Hummock grasslands, shrub-steppe; waterwood over <i>Triodia pungens</i>
Hs-02e	a4Sr t1Hi	Hummock grasslands, shrub-steppe; <i>Acacia dealbata</i> over <i>Triodia pungens</i>
Hs-02f	a5Sr t1Hi	Hummock grasslands, shrub-steppe; <i>Acacia pachycarpa</i> over <i>Triodia pungens</i>
Hs-02g	a5,11Sr t1Hi	Hummock grasslands, shrub-steppe; <i>Acacia pachycarpa</i> & waterwood over <i>Triodia pungens</i>
Hs-02h	a5,29Sr t1Hi	Hummock grasslands, shrub-steppe; <i>Acacia pachycarpa</i> & <i>A. tumida</i> over <i>Triodia pungens</i>
Hs-02i	a10,11Sr t1Hi	Hummock grasslands, shrub-steppe; <i>Acacia victoriae</i> & snakewood over <i>Triodia pungens</i>
Hs-02j	a11Sr t1Hi	Hummock grasslands, shrub-steppe; snakewood over <i>Triodia pungens</i>
Hs-02k	a28Sr t1Hi	Hummock grasslands, shrub-steppe; <i>Acacia eripoda</i> over <i>Triodia pungens</i>
Hs-02l	aSr t1Hi	Hummock grasslands, shrub-steppe; mixed acacia over <i>Triodia pungens</i> (Tanami)
Hs-03	aSr t2Hi	Hummock grasslands, shrub steppe; <i>Acacia</i> over hard spinifex <i>Triodia basedowii</i> $a=2,5,6,11$,
Hs-03a	a2Sr t2Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia basedowii</i>
Hs-03b	a5Sr t2Hi	Hummock grasslands, shrub steppe; <i>Acacia pachycarpa</i> over <i>Triodia basedowii</i>
Hs-03c	a6Sr t2Hi	Hummock grasslands, shrub steppe; <i>Acacia bivenosa</i> over <i>Triodia basedowii</i>
Hs-03d	a11Sr t2Hi	Hummock grasslands, shrub-steppe; snakewood over <i>Triodia basedowii</i>
Hs-03e	aSr t2Hi	Hummock grasslands, shrub-steppe; acacia species over <i>Triodia basedowii</i> on sandplains
Hs-03f	aSr t2Hi	Hummock grasslands, shrub-steppe; acacia & grevillea over <i>Triodia basedowii</i>
Hs-03g	xSr t2Hi	Hummock grasslands, shrub-steppe; scattered shrubs over <i>Triodia basedowii</i>
Hs-04	aSr t1,2Hi	Hummock grasslands, shrub steppe; <i>Acacia</i> over soft & hard spinifex <i>Triodia basedowii</i> & T $a=2$,
Hs-04a	a2Sr t1,2Hi	Hummock grasslands, shrub-steppe; kanji over <i>T. pungens</i> & <i>T. basedowii</i>
Hs-04b	aSr tHi	Hummock grasslands, shrub-steppe; acacia & spinifex on sandplain + laterite
Hs-05	aSr t1,3Hi	Hummock grasslands, shrub steppe; <i>Acacia</i> over soft & hard spinifex <i>Triodia basedowii</i> & <i>T. wiseana</i> $a=2,5,10,11$,
Hs-05a	a2Sr t1,3Hi	Hummock grasslands, shrub-steppe; kanji over <i>T. pungens</i> & <i>T. wiseana</i> on basalt
Hs-05b	a2,11Sr t1,3Hi	Hummock grasslands, shrub-steppe; kanji & snakewood over <i>T. pungens</i> & <i>T. wiseana</i>
Hs-05c	a5,10Sr t1,3Hi	Hummock grasslands, shrub-steppe; <i>Acacia pachycarpa</i> & <i>A. victoriae</i> over <i>T. pungens</i> & <i>T. wiseana</i>
Hs-05d	a11Sr t1,3Hi	Hummock grasslands, shrub-steppe; snakewood over <i>T. pungens</i> & <i>T. wiseana</i>
Hs-06	aSr tHi	Hummock grasslands, shrub steppe; <i>Acacia</i> over other spinifex $a=2,5,10,11$, $t=1,3,4,6,9$
Hs-06a	a2Sr t1,6Hi	Hummock grasslands, shrub steppe; kanji over <i>Triodia pulchella</i> & <i>T. bifurcata</i> on basalt
Hs-06b	a2Sr t3Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia wiseana</i> on hills of dolomite and shale
Hs-06c	a30Sr t1,4Hi	Hummock grasslands, shrub steppe; <i>Acacia impressa</i> over <i>Triodia pulchella</i> & <i>T. intermedia</i>
Hs-06d	a5,29Sr t1,4Hi	Hummock grasslands, shrub steppe; <i>Acacia pachycarpa</i> & <i>A. tumida</i> over <i>Triodia pulchella</i> & <i>T. Intermedia</i> sandplain

Appendix 1 Table 1 continued

Hs-06e	a28,29Si t1,4Hi	Hummock grasslands, shrub steppe; <i>Acacia eriopoda</i> & <i>A. tumida</i> over <i>Triodia pulchella</i> & <i>T. intermedia</i> sandplain
Hs-06f	a29Si t4Hi	Hummock grasslands, shrub steppe; <i>Acacia tumida</i> over <i>Triodia intermedia</i>
Hs-06g	a30Sr t4Hi	Hummock grasslands, shrub steppe; <i>Acacia impressa</i> over <i>Triodia intermedia</i> on stony laterite
Hs-06h	a5,30Sr t4Hi	Hummock grasslands, shrub steppe; <i>Acacia pachycarpa</i> & <i>A. impressa</i> over <i>Triodia intermedia</i>
Hs-06i	a22Sr t9Hi	Hummock grasslands, shrub steppe; <i>Acacia ligulata</i> over <i>Triodia plurinervata</i>
Hs-07	g,hSr t1Hi	Hummock grasslands, shrub steppe; <i>Grevillea refracta</i> hakea over soft spinifex
Hs-07a	g,hSr t1Hi	Hummock grasslands, shrub steppe; <i>Grevillea refracta</i> & hakea over soft spinifex <i>Triodia pungens</i>
Hs-07b	gSr t1Hi	Hummock grasslands, shrub steppe; <i>Grevillea refracta</i> over soft spinifex <i>Triodia pungens</i>
Hs-07c	h1anSr t1Hi	Hummock grasslands, shrub steppe; corkwood (<i>Hakea suberea</i>) & acacia species over soft spinifex <i>Triodia pungens</i>
Hs-07d	hSr t1Hi	Hummock grasslands, shrub steppe; hakea over soft spinifex <i>Triodia pungens</i>
Hs-08	a1Sr tHi	Hummock grasslands, shrub steppe; mulga over soft/ hard spinifex also a2,11, t=1,2,3
Hs-08a	a1Sr tHi	Hummock grasslands, shrub steppe; mulga over soft spinifex
Hs-08b	a1Sr t2Hi	Hummock grasslands, shrub steppe; mulga over soft spinifex <i>Triodia</i> on rises
Hs-08c	a1,2Sr t1,2Hi	Hummock grasslands, shrub-steppe; mulga & kanji over <i>Triodia pungens</i> & <i>T. basedowii</i>
Hs-08d	a1Sr t1,2Hi	Hummock grasslands, shrub-steppe; mulga over <i>Triodia pungens</i> & <i>T. basedowii</i>
Hs-08e	a1,11Sr t3Hi	Hummock grasslands, shrub-steppe; mulga & snakewood over <i>Triodia wiseana</i>
Hs-09	a1eSr tHi	Hummock grasslands, shrub steppe; mulga and mallee over spinifex e=21,22, t=1,2
Hs-09a	a1eSr t1Hi	Hummock grasslands, shrub steppe; mulga and mallee over soft spinifex
Hs-09b	a1e21Sr t2Hi	Hummock grasslands, shrub steppe; mulga and <i>Eucalyptus kingsmillii</i> over hard spinifex <i>Triodia basedowii</i>
Hs-09c	a1e22Sr t2Hi	Hummock grasslands, shrub steppe; mulga and red mallee over hard spinifex <i>Triodia basedowii</i>
Hs-09d	a1eSr t2Hi	Hummock grasslands, shrub steppe; mulga and mallee(?sp) over hard spinifex <i>Triodia basedowii</i>
Hs-10	eSr tHi	Hummock grasslands, shrub steppe;mallee over spinifex e=20,22,25 t=2,8,
Hs-10a	e60Sr t1Hi	Hummock grasslands, shrub steppe; silverleaved box over soft spinifex <i>Triodia pungens</i>
Hs-10b	e20Sr t2Hi	Hummock grasslands, shrub steppe; <i>Eucalyptus youngiana</i> over hard spinifex <i>Triodia basedowii</i>
Hs-10c	e22Sr t2Hi	Hummock grasslands, shrub steppe; red mallee over hard spinifex <i>Triodia basedowii</i>
Hs-10d	e22Sr t8Hi	Hummock grasslands, shrub steppe; red mallee over spinifex <i>Triodia scariosa</i>
Hs-10e	e25Sr t2Hi	Hummock grasslands, shrub steppe; <i>Eucalyptus gamophyllo</i> over hard spinifex <i>Triodia basedowii</i>
Hz-01	aZr t1Hi	Hummock grasslands, dwarf-shrub steppe; acacia over soft spinifex e=18
Hz-01a	a18Zr t1Hi	Hummock grasslands, dwarf-shrub steppe; <i>Acacia translucens</i> over soft spinifex <i>Triodia pungens</i>
HI-01	xM/Lb t3Hr	Hummock grasslands, sparse medium & low tree steppe over open spinifex a1,x, α
HI-01a	a1Lb t2Hr	Hummock grasslands,sparse low tree-steppe; mulga over <i>T. basedowii</i>
HI-01b	xLb t3Hr	Hummock grasslands, sparse low tree steppe; x over <i>T. wiseana</i>
HI-01c	α Mb t3Hr	Hummock grasslands, sparse medium tree steppe; ? <i>Andersonia gregorii</i> over open <i>T. wiseana</i> on limestone
HI-02	eLb t1/1,4Hi	Hummock grasslands, sparse tree steppe; eucalypts over soft spinifex <i>Triodia pungens</i>
HI-02a	e16Lb t1Hi	Hummock grasslands, sparse tree steppe; snappy gum over soft spinifex <i>Triodia pungens</i>

Appendix 1 Table 1 continued

Hi-02b	e16,61Lb t1Hi	Hummock grasslands, sparse tree steppe; snappy gum & bloodwood (<i>E. terminalis</i>) over soft spinifex <i>Triodia pungens</i>
Hi-02c	e16Lb t1,4Hi	Hummock grasslands, sparse tree steppe; snappy gum over spinifex <i>Triodia pungens</i> & <i>T. Intermedia</i> on high sandstone ridges & plateau
Hi-02d	e16,24Lb t1,4Hi	Hummock grasslands, sparse tree steppe; snappy gum & bloodwood (<i>E. dichromophloia</i>) over spinifex <i>Triodia pungens</i> & <i>T. Intermedia</i>
Hi-02e	e24,53Lb t1,4Hi	Hummock grasslands, sparse tree steppe; snappy gum & bloodwood (<i>E. dichromophloia</i>) & <i>E. setosa</i> over spinifex <i>Triodia pungens</i> & <i>T. Intermedia</i>
Hi-03	eLb tHi	Hummock grasslands, sparse tree steppe; eucalypts over other spinifex t=1,2,3,4,5,7
Hi-03a	e24Lb t2Hi	Hummock grasslands, sparse tree steppe; bloodwood over hard spinifex <i>Triodia basedowii</i>
Hi-03b	e24Lb t1,7Hi	Hummock grasslands, sparse tree-steppe; scattered bloodwood over <i>T. pungens</i> & <i>T. sp. indet. aff. angusta</i>
Hi-03c	e16Lb t3,4Hi	Hummock grasslands, sparse tree steppe; snappy gum over hard spinifex <i>Triodia wiseana</i> & <i>T. Intermedia</i> on rocky ranges
Hi-03d	e16,61Lb t3,4Hi	Hummock grasslands, sparse tree steppe; snappy gum & bloodwood (<i>E. terminalis</i>) over hard spinifex <i>Triodia wiseana</i> & <i>T. Intermedia</i> on basalt and dolerite
Hi-03e	e16Lb t4Hi	Hummock grasslands, sparse tree steppe; snappy gum over hard spinifex <i>Triodia Intermedia</i>
Hi-03f	e16Lb t4,5Hi	Hummock grasslands, sparse tree steppe; snappy gum over hard spinifex <i>Triodia Intermedia</i> & <i>T. Inutilis</i>
Hi-03g	ebLb t4Hi	Hummock grasslands, sparse tree steppe; eucalypt & ?bauhinia over hard spinifex <i>Triodia Intermedia</i>
Hi-04	aSbtHi	Hummock grasslands, sparse shrub steppe; acacia over spinifex a=2,6,7, t=1,2,3,6,7
Hi-04a	a6Sb t2Hi	Hummock grasslands, sparse shrub steppe; <i>Acacia bivenosa</i> over hard spinifex <i>Triodia basedowii</i>
Hi-04b	a6Sb t3Hi	Hummock grasslands, sparse shrub steppe; <i>Acacia bivenosa</i> over hard spinifex <i>Triodia wiseana</i>
Hi-04c	a6Sb t6Hi	Hummock grasslands, sparse shrub steppe; <i>Acacia bivenosa</i> over hard spinifex <i>Triodia brizoides</i>
Hi-04d	a2,6Sb t2,3Hi	Hummock grasslands, sparse shrub steppe; kanji & <i>Acacia bivenosa</i> over hard spinifex <i>Triodia basedowii</i> & <i>T. wiseana</i>
Hi-04e	a6,7Sb t3Hi	Hummock grasslands, sparse shrub steppe; <i>Acacia bivenosa</i> & <i>A. trachycarpa</i> over hard spinifex <i>T. wiseana</i> Very poor rocky country on gneiss
Hi-04f	a2Sb t1,6Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i> & <i>T. brizoides</i>
Hi-04g	xSb t3,7Hi	Hummock grasslands, shrub-steppe; scattered shrubs over <i>Triodia wiseana</i> & <i>T. sp. indet. aff. angusta</i>
Hi-05	aSp tHi	Hummock grasslands, patchy shrub steppe; acacia over spinifex a= 1,5 t=1,2
Hi-05a	a5Sp t1Hi	Hummock grasslands, patchy shrub steppe; <i>Acacia pachycarpa</i> over soft spinifex on ironstone plateau
Hi-05b	a1Sp t2Hi	Hummock grasslands, patchy shrub steppe; mulga over hard spinifex <i>Triodia basedowii</i> on laterite
Hi-06	t1Hi	Hummock grasslands, grass steppe, mainly soft spinifex <i>Triodia pungens</i>
Hi-06a	t1Hi	Hummock grasslands, grass steppe; soft spinifex <i>Triodia pungens</i>
Hi-06b	t1,2Hi	Hummock grasslands, grass steppe; soft & hard spinifex <i>Triodia pungens</i> & <i>T. basedowii</i>
Hi-06c	t1,3Hi	Hummock grasslands, grass steppe; soft & hard spinifex <i>Triodia pungens</i> & <i>T. wiseana</i>
Hi-06d	t1,4Hi	Hummock grasslands, grass steppe; soft & hard spinifex <i>Triodia pungens</i> & <i>T. Intermedia</i>
Hi-07	t2Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia basedowii</i>
Hi-07a	t2Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia basedowii</i>
Hi-08	t3Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>
Hi-08a	t3Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>
Hi-08b	t2,3Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i> & <i>T. basedowii</i>

Appendix 1 Table 1 continued

Hi-09	tHi (other)	Hummock grasslands, grass steppe; spinifex other <i>Triodia</i> spp t=2,3,4,5,&p3
Hi-09a	t4Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia intermedia</i>
Hi-09b	t5Hi	Hummock grasslands, grass steppe; spinifex <i>Triodia inutilis</i>
Hi-09c	t9Hi	Hummock grasslands, grass steppe; spinifex <i>Triodia plurinervata</i>
Hi-09d	t2,3,p3Hi	Hummock grasslands, grass steppe; spinifex <i>Triodia wiseana</i> & <i>T. basedowii</i> /Plectrachne pungens
Hi-09e	t11Hi	Hummock grasslands, grass steppe; spinifex <i>Plectrachne pungens</i> on shale (t11=p3)
HX-01	eLr p/tHi xZp	Hummock grasslands, mixed sandplain - scattered low trees over sparse dwarf shrubs with spinifex
HX-01a	e22Lr t2Hi xZp	Hummock grassland, mixed sandplain - scattered low trees over sparse dwarf shrubs with spinifex; red mallee over mixed dwarf shrubs with <i>Triodia basedowii</i>
HX-01b	e22Lr t8,13Hi xZp	Hummock grassland, mixed sandplain - scattered low trees over sparse dwarf shrubs with spinifex; red mallee over mixed dwarf shrubs with <i>Triodia scariosa</i> & <i>T. ?sp</i>
HX-01c	e22Lp t8,13Hi xZp	Hummock grassland, mixed sandplain - sparse low trees over sparse dwarf shrubs with spinifex; red mallee over mixed dwarf shrubs with <i>Triodia scariosa</i> & <i>T. ?sp</i>
HX-01d	e19,22Lp t8,13Hi xZp	Hummock grassland, mixed sandplain - sparse low trees over sparse dwarf shrubs with spinifex; ?marble gum & red mallee mixed dwarf shrubs with <i>Triodia scariosa</i> & <i>T. ?sp</i>
HX-02	e22Sr tHi xZp	Hummock grasslands, mixed sandplain -open mallee over sparse dwarf shrubs with spinifex
HX-02a	e22Sr t2Hi xZp	Hummock grasslands, mixed sandplain - open mallee over sparse dwarf shrubs with spinifex ; red mallee mallee & mixed sparse dwarf shrubs over <i>Triodia basedowii</i>
HX-03	a9Si xZp t,pHi	Hummock grasslands, mixed sandplain; bowgada, ? sugarbrother, some spinifex
HX-03a	a9Si xZp t2,13Hi	Hummock grasslands, mixed sandplain; bowgada, sugarbrother, mallee, <i>Triodia basedowii</i> & <i>T. ?sp</i>
HX-03b	a9Si xZp t8,13Hi	Hummock grasslands, mixed sandplain; bowgada, sugarbrother, mallee, <i>Triodia scariosa</i> & <i>T. ?sp</i>
HX-03c	a9,20Si xZp pHp	Hummock grasslands, mixed sandplain; bowgada ,mallee, heath and spinifex
HX-04	anSZr t1,2Hi	Hummock grassland; shrub steppe; mixed scrub & dwarf scrub with spinifex
HX-04a	anSZr t1,2Hi	Hummock grassland; shrub steppe; mixed acacia scrub & dwarf scrub with <i>Triodia pungens</i> & <i>T. basedowii</i>
HX-05	xSi t2ZHi	Hummock grassland; shrub steppe; mixed scrub, spinifex with dwarf shrubs
HX-05a	xSi t2ZHi	Hummock grassland; shrub steppe; mixed scrub, hard spinifex (<i>T. basedowii</i>) with dwarf shrubs
HX-06	xZhC	Hummock grassland; shrub steppe; mixed Hummock grassland; shrubs and spinifex (Shark Bay)
HX-06a	xZhC	Hummock grassland; shrub Steppe; mixed ericoid Hummock grassland; shrubs & spinifex,
HX-06b	a22Si xZHi	Hummock grassland; shrub steppe; wattie scrub & heath <i>Acacia ligulata</i> x <i>rostellifera</i>
HG-01	xHGi	Mixed short grass and spinifex
HG-01a	atkGc	Spinifex, mitchell grass & kangaroo grass (mapped as akGc, joins xHGi)
HG-01b	xHGi	Mixed short grass and spinifex
HG-01c	e17Lr xHGi	Mixed short grass and spinifex with scattered coolebah
SCM-01	eMi mSc kCl	Succulent steppe; eucalypt woodland, teatree thicket & saltflats
SCM-01a	e6Mi m5Sc k3Cl	Succulent steppe; york gum woodland, <i>Melaleuca thyoides</i> thicket & samphire
SCm-01	eMr mSc k3Cl	Succulent steppe; eucalypt open woodland, teatree thicket & samphire e6,6,8 c8

Appendix 1 Table 1 continued

SCm-01a	e6Mr m5Sc k3Ci	Succulent steppe; york gum open woodland, <i>Melaleuca thyoides</i> thicket & samphire
SCm-01b	e5c6Mr mSc k3Ci	Succulent steppe; wandoo & <i>Allocasuarina obesa</i> open woodland, teatree thicket & samphire
SCm-01c	e5,8c6Mr mSI k3Ci	Succulent steppe; wandoo, salmon gum & <i>Allocasuarina obesa</i> open woodland, teatree scrub & samphire
SCm-01d	ec6Mr mSc k3Ci	Succulent steppe; eucalypts & <i>Allocasuarina obesa</i> open woodland, teatree scrub & samphire
SC-01	eMp mSc k1Ci	Succulent steppe; eucalypt sparse woodland, teatree scrub & samphire
SC-01a	e36,66Mp mSc k3Ci	Succulent steppe; yorrell & Kondinin blackbutt sparse woodland, teatree scrub & samphire
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire
SC-01c	e8,9Mp mSc k3Ci	Succulent steppe; salmon gum & morrell sparse woodland, teatree scrub & samphire
CM-01	eMi k1Ci	Succulent steppe; eucalypt/cauarina woodland & saltflats e6,8,34,c6 m5 k1,2,3
CM-01a	e6Mi k3Ci	Succulent steppe; york gum woodland & samphire
CM-01b	e8Mi k1Ci	Succulent steppe; salmon gum woodland & saltbush
CM-01c	e8Mi k2Ci	Succulent steppe; salmon gum woodland & bluebush
CM-01d	e34Mi k1Ci	Succulent steppe; gimlet woodland & saltbush
CM-01e	eMi kCi	Succulent steppe; eucalypt woodland & saltflats e?
CM-01f	e6Mi mSp k3Ci	Succulent steppe; yorkgum woodland, sparse teatree scrub & samphire
CM-01g	e6Mi m5Sp k3Ci	Succulent steppe; yorkgum woodland, sparse <i>Melaleuca thyoides</i> scrub & samphire
CM-01h	c6Mi k3Ci	Succulent steppe; <i>Casuarina obesa</i> woodland & samphire
Cm-01	eMr kCi	Succulent steppe; saltflats & scattered eucalypts
Cm-01a	e6Mr k1Ci	Succulent steppe; saltbush & scattered york gum
Cm-01b	e8,34Mr k2Ci	Succulent steppe; bluebush & scattered salmon gum & gimlet
Cm-01c	eMr k1Ci	Succulent steppe; saltbush & scattered eucalypts e?
Cm-01d	e8Mr mSp k3Ci	Succulent steppe; samphire, scattered salmon gum & sparse teatree scrub
CL-01	mLI k3Ci	Succulent steppe; myoporum low woodland over samphire
CL-01a	mLI k3Ci	Succulent steppe; myoporum low woodland over samphire
CL-02	a1LI k1Ci	Succulent steppe with low woodland; mulga
CL-02a	a1LI k1Ci	Succulent steppe; saltbush with low woodland; mulga
CL-02c	a1LI k3Ci	Succulent steppe; samphire with low woodland; mulga
CL-03	aLI kCi	Succulent steppe with low woodland; other acacia
CL-03a	a13LI k2Ci	Succulent steppe; bluebush with low woodland; <i>Acacia papyrocarpa</i>
CL-03b	a11LI k1,2Ci	Succulent steppe; saltbush & bluebush with low woodland; snakewood
CL-04	cLI kCi	Succulent steppe with low woodland; sheoak
CL-04a	cLI k3Ci	Succulent steppe; samphire with low woodland; sheoak
CL-04b	c2LI k2Ci	Succulent steppe; bluebush with low woodland; sheoak
CL-05	a1c2LI Ci	Succulent steppe with open low woodland; mulga & sheoak
CL-05a	a1c2LI k2Ci	Succulent steppe; bluebush with open low woodland; mulga & sheoak

Appendix 1 Table 1 continued

CL-05b	a1c2LkCl	Succulent steppe with open low woodland; mulga & sheoak
CI-01	cLr kCl	Succulent steppe with open low woodland; sheoak
CI-01a	c2Lr k1Cl	Succulent steppe; saltbush with open low woodland; sheoak
CI-01b	c2Lr k1,2Cl	Succulent steppe; saltbush & bluebush with open low woodland; sheoak
CI-02	a1LrkCl	Succulent steppe with open low mulga
CI-02a	a1Lr k1Cl	Succulent steppe; saltbush with open low mulga
CI-02b	a1Lr k2Cl	Succulent steppe; bluebush with open low mulga
CI-02c	a1Lr kCl	Succulent steppe with open low mulga
CI-02d	a1,8Lr k1,2Cl	Succulent steppe; saltbush & bluebush with open low mulga & <i>A. sclerosperma</i>
CI-03	a1c2Lr kCl	Succulent steppe with open low woodland; mulga & sheoak
CI-03a	a1c2Lr k1Cl	Succulent steppe; salt bush, with open low woodland; mulga & sheoak
CI-03b	a1c2Lr k2Cl	Succulent steppe; bluebush, with open low woodland; mulga & sheoak
CI-04	aLr kCl	Succulent steppe with open low woodland; <i>A. papyrocarpa</i>
CI-04a	a13Lr k2Cl	Succulent steppe; bluebush, with open low woodland; <i>A. papyrocarpa</i>
CI-04b	a13Lr k1,2Cl	Succulent steppe; saltbush & bluebush, with open low woodland; <i>A. papyrocarpa</i>
CI-05	mLr kCl	Succulent steppe with open low woodland; myoporum
CI-05a	mLr k1Cl	Succulent steppe; saltbush, with open low woodland; myoporum
SC-02	mSc kCl	Succulent steppe; teatree thicket over samphire
SC-02a	m5Sc k3Cl	Succulent steppe; <i>Melaleuca thyoides</i> thicket over samphire
SC-02b	mSc k3Cl	Succulent steppe; teatree thicket over samphire m5?
SC-02c	mSi k3Cl	Succulent steppe; teatree scrub over samphire m5?
SC-02d	mSi xCl	Succulent steppe; teatree scrub over saltflats
CS-01	aSi kCl	Succulent steppe with wattle scrub
CS-01a	a3,8Si k1,3Cl	Succulent steppe; saltbush & samphire with waterwood & <i>Acacia sclerosperma</i>
CS-01b	a11Si k1Cl	Succulent steppe; saltbush with snakewood
CS-01c	a1Si xCl	Succulent steppe; various species with mulga
CS-01d	a9Si kCl	Succulent steppe; heterogeneous species with bowgada scrub
CS-01f	aSi k1,3Cl	Succulent steppe; saltbush & samphire with acacia species
CS-01g	aSi k1Cl	Succulent steppe; saltbush with acacia species
Cs-01	a1Sr,r kCl	Succulent steppe; saltbush & bluebush with scattered mulga shrubs
Cs-01a	a1Sr k1Cl	Succulent steppe; saltbush with scattered mulga shrubs
Cs-01b	a1Sr k1,2Cl	Succulent steppe; saltbush & bluebush with scattered mulga shrubs
Cs-01c	a1,8Sr k1,2Cl	Succulent steppe; saltbush & bluebush with scattered mulga & <i>Acacia sclerosperma</i>
Cs-01d	a1,nSr k1,2Cl	Succulent steppe; saltbush & bluebush with scattered mulga & other wattle(s)
Cs-02	aSr kCl	Succulent steppe with scattered wattle (k=1,2,3 a=3,8)

Appendix 1 Table 1 continued

Cs-02a	a9,19Sr k1Cl	Succulent steppe; saltbush,with scattered bowgada & jam
Cs-02b	a8,10Sr k2Cl	Succulent steppe; bluebush,with scattered <i>Acaica sclerosperma</i> & <i>A. victoriae</i>
Cs-02c	a8,10Sr k1,2Cl	Succulent steppe; saltbush & bluebush,with scattered <i>Acaica sclerosperma</i> & <i>A. victoriae</i>
Cs-02d	a8,9Sr k1,2Cl	Succulent steppe; saltbush & bluebush,with scattered <i>Acalca sclerosperma</i> & bowgada
Cs-02e	a8Sr k1,2Cl	Succulent steppe; saltbush & bluebush, with scattered <i>Acacia sclerosperma</i>
Cs-02f	a9,19Sr k1,2Cl	Succulent steppe; saltbush & bluebush,with scattered bowgada & jam
Cs-02g	a10,11Sr kCl	Succulent steppe with scattered <i>Acacia victoriae</i> & snakewood
Cs-02h	a8,11Sr xCl	Succulent steppe with scattered <i>Acacia sclerosperma</i> & snakewood
Cs-02i	anSr k1Cl	Succulent steppe; saltbush with scattered wattles
Cs-02j	aSr xCl	Succulent steppe with scattered wattles
Cs-02k	a11Sr k2Cl	Succulent steppe; bluebush,with scattered snakewood
Ci-01	x/kCl	Succulent steppe; various species x=k1,k2 &/or k3
Ci-01a	xCl	Succulent steppe; heterogeneous spp
Ci-01b	kCl	Succulent steppe; heterogeneous spp k1,3,or3?
Ci-01c	knCl	Succulent steppe; heterogeneous spp
Ci-02	k1Cl	Succulent steppe;mainly saltbush
Ci-02a	k1Cl	Succulent steppe; saltbush
Ci-02b	k1,2Cl	Succulent steppe; saltbush & bluebush
Ci-02c	a1,8Lb k1,2Cl	Succulent steppe; saltbush & bluebush with very sparse mulga and <i>A. sclerosperma</i>
Ci-02d	k1,3Cl	Succulent steppe; saltbush & samphire
Ci-03	k2Cl	Succulent steppe;mainly bluebush
Ci-03a	k2Cl	Succulent steppe; bluebush
Ci-03b	k2Cl	Succulent steppe; bluebush (in dongas)
Ci-03c	k2Cl	Succulent steppe; bluebush with grassy depressions
Ci-03d	k2Cl	Succulent steppe; bluebush with saltbush in depressions
Ci-04	k3Cl	Succulent steppe; samphire
Ci-04a	k3Cl	Succulent steppe; samphire
Cr-01	kCr	Sparse succulent steppe
Cr-01a	a11Sb k2Cr	Sparse succulent steppe; bluebush with very sparse snakewood shrubs
Cp-01	kCp	Scattered groups of succulents
Cp-01a	k1,2Cp	Scattered groups of saltbush/bluebush
Cp-01b	kCp	Scattered groups of succulents
	Bare areas	Bare areas
sl	sl	Bare areas; salt lakes
fl	fl	Bare areas; freshwater lakes

Appendix 1 Table 1 continued

cl/md	cl/md	Bare areas; clatpans, mudflats
r	r	Bare areas; rock outcrops
ds	ds	Bare areas; drift sand
MOSAIC UNITS		
Tc-01a/Tc-02b	e1Tc/e2,3Tc	Mosaic: Tall forest; karri / Tall forest; jarrah & marri
Mc-01a/Mi-01c	e2,3Mc/e3,5Mi	Mosaic: Medium forest; jarrah-marri / Medium woodland; marri-wandoo
Mc-01a/Lc-06a	e2,3Mc/e2Lc	Mosaic: Medium forest; jarrah-marri / Low forest; jarrah
Mc-01a/Lc-06c	e2,3Mc/ecLc	Mosaic: Medium forest; jarrah-marri / Low forest; jarrah & casuarina
Mc-01a/Li-09a/Li-13a	e2,3Mc/bLi/mLi	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low woodland; paperbark,
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree
Mi-01a/Li-09a/Lc-03a/Li-11d	e2,3Mi/bLi/mLc/c6Li	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree / Low woodland; <i>Casuarina obesa</i>
MI-01j/Zc-02a	e3,5,45Mi/dZc	Mosaic: Medium woodland; marri, wandoo, powderbark / Shrublands; dryandra heath
MI-05j/Mi-06e	e8,34Mi/e11,22Mi	Mosaic: Medium woodland; salmon gum & gimlet / Medium woodland; merrit & red mallee
MI-05f/Sc-06a	e6,8Mi/c3Sc	Mosaic: Medium woodland; York gum & salmon gum / Shrublands; thicket, acacia-casuarina-melaleuca alliance
Mr-01b/Zc-02a	e3Mr.dZc	Mosaic: Medium open woodland; marri / Shrublands; dryandra heath
Mr-01c/Zc-02a	e5Mr.dZc	Mosaic: Medium open woodland; wandoo / Shrublands; dryandra heath
Mr-01d/Zc-02a	e5,45Mr.dZc	Mosaic: Medium open woodland; wandoo & powderbark wandoo / Shrublands; dryandra heath
Mr-01c/Zc-01e	e5Mr/dZc	Mosaic: Medium open woodland; wandoo / Shrublands; mixed heath
MI-05h/Ci-02d	e6,8,9Mi/k1,3Ci	Mosaic: Medium woodland; York gum, salmon gum & morrel / Succulent steppe; saltbush & samphire
MI-05f/Sc-08c	e6,8Mi/m5Sc	Mosaic: Medium woodland; merrit & red mallee / Shrublands; <i>Melaleuca cardiophylla</i> thicket
Mr-01b/Sc-08d	e3Mr/mSc	Mosaic: Medium open woodland; marri / Shrublands; teatree thicket
MI-06e/Si-06a	e11,22Mi/dSi	Mosaic: Medium woodland; merrit (or a11?) & red mallee / Shrublands; dryandra scrub
MI-06i/Si-06a	e13,14Mi/dSi	Mosaic: Medium woodland; goldfields blackbutt & Dundas blackbutt / Shrublands; dryandra scrub
MI-06m/HS-01a	e8,22Mi/e22Sr t8Hi	Mosaic: Medium woodland; salmon gum & red mallee / Hummock grasslands, mallee steppe; red mallee over spinifex <i>Triodia scariosa</i>
MI-05j/HS-01a	e22Sr t8Hi/eMi	Mosaic: Medium woodland; salmon gum & gimlet / Hummock grasslands, mallee steppe; red mallee over spinifex <i>Triodia scariosa</i>
Mr-02c/Ci-02a	e8,9Mr.k1Ci	Mosaic: Medium open woodland; salmon gum & morrel / Succulent steppe; saltbush
Mp-01b/Ci-04b	e8,9Mp.k3Ci	Mosaic: Medium sparse woodland; salmon gum & morrel / Succulent steppe; samphire
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire
Mp-01d /Hi-07a	c,c1Mp.t2Hi	Mosaic: Medium sparse woodland; desert oak between sand dunes / Hummock grasslands, grass steppe; hard spinifex <i>Triodia basedowii</i>

Appendix 1 Table 1 continued

LM-01a/Mp-01a	e2,3Mr.bLi/e2,3,Mp	Mosaic: Medium open woodland; jarrah & marri, with low woodland; banksia / Medium sparse woodland; jarrah & marri
Ld-01a/Hl-03f	xLd/eLt11Hi	Mosaic: Low dense forest-mixed tropical deciduous forest / Hummock grasslands, open low tree steppe; scattered low rare eucs in spinifex
Lr-02a/Si-02p/Cp-01a	a1Lr/a9,17Si/k1,2Cp	Mosaic: Open low woodland; mulga / Shrublands; bowgada & minnieritchie scrub / Scattered groups of saltbush/bluebush
LI-04a/Ci-04a	a1,9Li/k3Ci	Mosaic: Low woodland; mulga & bowgada / Succulent steppe; samphire
Lr-02a/Ci-02b	a1Lr/k1,2Ci	Mosaic: Open low woodland; mulga / Succulent steppe; saltbush & bluebush on greenstone
LI-02a/Ci-02b	a1Li k1,2Ci	Mosaic: Low woodland; mulga / Succulent steppe; saltbush & bluebush
Lr-02a/Ci-01b	a1Li/kCi	Mosaic: Open low woodland; mulga / Succulent steppe; heterogeneous species on greenstone
Lp-01a/Cp-01b	a1Lp,kCp	Mosaic: Sparse low woodland; mulga in scattered groups /Scattered groups of succulents
LI-09a/Mr-02a	bLi/e4Mr	Mosaic: Low woodland; banksia / Medium open woodland; tuart
LI-09a/Sc-08d	bLi/mSc	Mosaic: Low woodland; banksia / Shrublands; teatree thicket
LI-06b/Si-02c	a3Li/a8,9Si	Mosaic: Low woodland; waterwood / Shrublands; <i>Acacia sclerosperma</i> & bowgada scrub
LI-06b/Si-02i	a3Li/a8,10,16	Mosaic: Low woodland; waterwood / Shrublands; <i>Acacia sclerosperma</i> , <i>A. victoriae</i> & <i>A. subtessarogona</i> scrub
LI-09a/Zc-02a	bLi/dZc	Mosaic: Low woodland; banksia / Shrublands; dryandra heath
LS-01a/SZ-03j	xLSi/xSzC	Mosaic: Shrublands tree-heath between sandhills / Shrublands; scrub-heath
SL-01b/SI-04b	a1Li a9Si/a9gSi	Mosaic: Low woodland over scrub; mulga over bowgada scrub / Shrublands; bowgada & grevillea scrub on sandhills
SL-02b/SI-04b	a9gSi/a1Lr a9Si	Mosaic: Shrublands; bowgada & grevillea scrub / Shrublands; bowgada scrub with scattered mulga
Sc-03b/Lp-01d	a23m3Sc/e44Lp	Mosaic: Shrublands; <i>Acacia rostellifera</i> & <i>Melaleuca cardiophylla</i> thicket / Sparse low woodland; illyarie
Sc-04a/Sm-02c	c3Sc/e6Mr.a19Si	Mosaic: Shrublands; <i>Allocasuarina campestris</i> thicket / Shrublands; jam scrub with scattered York gum in the vales
Sc-04a/Sl-02a	c3Sc/c5Li.eaSi	Mosaic: Shrublands; <i>Allocasuarina campestris</i> thicket / Shrublands; mallee & acacia scrub with wandoo low woodland
Sc-01d/SZ-03d	acSc/x3SzC	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats
SI-02c/Ci-04a	a8,9Si/k3Ci	Mosaic: Shrublands; <i>Acacia sclerosperma</i> & bowgada scrub / Succulent steppe; samphire
SI-02m/Si-02d	a9Si/a8,9,10Si	Mosaic: Shrublands; bowgada scrub / Shrublands; <i>Acacia sclerosperma</i> , bowgada & <i>A. victoriae</i> scrub
SI-02c/Si-02i	a8,9Si/a10,11Si	Mosaic: Shrublands; <i>Acacia sclerosperma</i> & bowgada scrub / Shrublands; snakewood & <i>A. victoria</i> scrub
SI-04b/Si-02m	a9gSi/a9Si	Mosaic: Shrublands; bowgada & grevillea scrub / Shrublands; bowgada scrub
SI-04b/SI-02c	a9gSi/a8,9Si	Mosaic: Shrublands; bowgada & grevillea scrub / Shrublands; <i>Acacia sclerosperma</i> & bowgada scrub
SI-02j/Zp-01a	a8,10,11Si/xZp	Mosaic: Shrublands; <i>Acacia sclerosperma</i> , <i>A. victoriae</i> & snakewood scrub / Shrublands; patches of low mixed scrub
SI-02t/Hs-04a	a10,11Si/a2Sr t1,2Hi	Mosaic: Shrublands; snakewood & <i>A. victoria</i> scrub / Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i> & <i>T. basedowii</i>
SI-02m/HX-02a	a9Si/e22Sr.tHl xZp	Mosaic: Shrublands; bowgada scrub / Hummock grasslands, mixed sandplain - open red mallee mallee over sparse dwarf shrubs with spinifex
SI-02p/Ci-02b	a9,17Si/k1,2Ci	Mosaic: Shrublands; bowgada & minnieritchie scrub / Succulent steppe; saltbush & bluebush
SI-02m/Ci-02b	a9Si/k1,2Ci	Mosaic: Shrublands; bowgada scrub / Succulent steppe; saltbush & bluebush
SI-02m/Ci-04a	a9Si/k3Ci	Mosaic: Shrublands; bowgada scrub / Succulent steppe; samphire

Appendix 1 Table 1 continued

Si-02c/Ci-02b	a8,9Si/k1,2Ci	Mosaic: Shrublands; <i>Acacia sclerosperma</i> & bowgada scrub / Succulent steppe; saltbush & bluebush
Si-04c/Ci-02a	amSi/k1Ci	Mosaic: Shrublands; acacia & melaleuca scrub / Succulent steppe; saltbush
Si-9c/Mi-05i	e6,39Si/e5,34Mi	Mosaic: Shrublands; York gum & <i>Eucalyptus sheathiana</i> mallee scrub / Medium woodland; wandoo & gimlet
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & <i>Eucalyptus sheathiana</i> mallee scrub / Medium woodland; salmon gum & gimlet
Si-10a/Mi-05j	e9,39Si/e8,34Mi	Mosaic: Shrublands; mallee <i>Eucalyptus longicornis</i> & <i>E.sheathiana</i> scrub/ Medium woodland; salmon gum & gimlet
Si-11a/Mi-06d	e15Si/e11,12Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> / Medium woodland; merrit & coral gum
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> /Medium woodland; salmon gum & red mallee
Si-11a/Mi-06g	e8,14Mi/e15Si	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> /Medium woodland; salmon gum & Dundas blackbutt
Si-11a/Mi-06o	eSi/e34Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> / Medium woodland; gimlet
Si-11c/Mi-05g	e15,24Si/e8,9Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & ?bloodwood <i>E. dichromophloia</i> / Medium woodland; salmon gum & morrel
Si-11d/Mi-05f	e15,27Si/e6,8Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & black marlock / Medium woodland; York gum & salmon gum
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & black marlock / Medium woodland; salmon gum & morrel
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet
Si-13a/Mi-09a	eSi/e7Mi	Mosaic: Shrublands; mallee scrub, black marlock / Medium woodland; yate
Si-13e/Mi-05g	eSi/e8,9Mi	Mosaic: Shrublands; mallee scrub, redwood / Medium woodland; salmon gum & morrel
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum
Si-13a/SZ-01b	e27Si/e26SZc	Mosaic: Shrublands; mallee scrub, black marlock / Shrublands; tallerack mallee-heath
Sp-01f/Gc-02a	a10,11Sp/xGc	Mosaic: Shrublands; <i>Acacia victoriae</i> & snakewood scrub patches / Short bunch grassland - savanna /grass plain (Pilbara)
SZ-03f/LI-07f	x6SZc/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarie
SZ-03i/Lp-01e	x9SZc/e5,45Lp	Mosaic: Shrublands; scrub-heath / Sparse low woodland; wandoo & powderbark wandoo
SZ-03i/Sc-03b	xSZc/amSc	Mosaic: Shrublands; scrub-heath / Shrublands; acacia-melaleuca thickets ? m3 & a23
SZ-03i/Sc-04a	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; <i>Allocasuarina campestris</i> thicket
SZ-03i/Sc-04b	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; <i>Allocasuarina campestris</i> thicket
SZ-03i/Si-02y	xSZc/aSi	Mosaic: Shrublands; scrub-heath / Shrublands; acacia various species scrub
SZ-03a/Sp-01g	x2SZc/aSp	Mosaic: Shrublands; scrub-heath on coastal association / Shrublands; acacia patchy scrub
SZ-03j/SZ-01b	xSZc/e26 SZc	Mosaic: Shrublands; scrub-heath / Shrublands; tallerack mallee-heath
SZ-03j/SZ-01c	xSZc/e29 SZc	Mosaic: Shrublands; scrub-heath / Shrublands; <i>Eucalyptus incrassata</i> mallee-heath
SZ-03j/Zc-02a	xSZc/dZc	Mosaic: Shrublands; scrub-heath / Shrublands; dryandra heath
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; <i>Acacia lasiocarpa</i> & <i>Melaleuca acerosa</i> heath / Shrublands; <i>Acacia rostellifera</i> & <i>Melaleuca cardiophylla</i> thicket+F1170
Zc-01a/Sc-02h	a26m4Zc/a23,32Sc	Mosaic: Shrublands; <i>Acacia lasiocarpa</i> & <i>Melaleuca acerosa</i> heath / Shrublands; <i>Acacia rostellifera</i> & <i>Acacia cyclops</i> thicket
Zc-01a/Sc-02i	a26m4Zc/a32Sc	Mosaic: Shrublands; <i>Acacia lasiocarpa</i> & <i>Melaleuca acerosa</i> heath / Shrublands; <i>Acacia cyclops</i> thicket
Zc-01e/Sp-01g?	xZc/aSp	Mosaic:Shrublands; mixed heath / Shrublands; acacia patchy scrub
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath

Appendix 1 Table 1 continued

ZI-01a/HI-08a	scZI/t3Hi	Mosaic: Shrublands; eremophila and cassia dwarf scrub / Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>
kGI-02a/HI-04c	b3LrcGc/eLrt1,4Hi	Mosaic: Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over ribbon grass / Hummock grasslands, open low tree-steppe; ?snappy gum over <i>T. pungens</i> & <i>T. Intermedia</i>
Kgl-01a/KG-02a	e54,61Lr.ecg/s2Gc	Mosaic: Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass / Grasslands; high grass savanna, white grass
Kgl-01a/HI-04d	e54,61Lr.ecg/e16Lrt3,4Hi	Mosaic: Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass / Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> & <i>T. Intermedia</i>
Kgl-01a/HI-02a/KG-02a	e54,61LreGc/e16Lrt3Hi/s2Gc	Mosaic: Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass / Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> / Grasslands; high grass savanna, white grass
Kgl-02a/HI-06d	e16Lregc/t1,4Hi	Mosaic: Grasslands, short bunch grass savanna low tree; snappy gum over enneapogon short grass on plains / Hummock grasslands, grass steppe; soft & hard spinifex <i>Triodia pungens</i> & <i>T. Intermedia</i>
Kgl-02a/HI-09a	e16Lregc/t4Hi	Mosaic: Grasslands, short bunch grass savanna low tree; snappy gum over enneapogon short grass on plains / Hummock grasslands, grass steppe; hard spinifex <i>Triodia Intermedia</i>
kgL-01a/kgL-01b	e55,56LJ.t11Gc/e16Llt11Gc	Mosaic: Grasslands, curly spinifex, low tree savanna woodland; gnainger & <i>Eucalyptus ferruginea</i> over <i>Plectrachne pungens</i> / Grasslands, curly spinifex, low tree savanna woodland; snappy gum over curly spinifex on sandstone
kgL-01a/HI-09a	e16Lrt11Gc/t4Hi	Mosaic: Grasslands, curly spinifex, low tree savanna; snappy gum over curly spinifex / Hummock grasslands, grass steppe; hard spinifex <i>Triodia Intermedia</i>
kgL-01c/ kg-01a	e16,58Lrp3Gc/aLbp4?Gl	Mosaic: Grasslands, curly spinifex, low tree savanna; snappy gum & <i>E. perfoliate</i> over <i>Plectrachne pungens</i> / Grasslands; sparse low tree savanna; ? <i>Andersonia grigorii</i> over <i>Plectrachne bynoei</i>
GL-01a/HI-06a/Ci-01a	e17LJ.xGc/t1Hi/kCl	Mosaic: Sedgeland; sedges with low tree savanna woodland; coolabah over various sedges /Hummock grasslands, grass steppe; soft spinifex <i>Triodia pungens</i> / Succulent steppe; heterogeneous app
Gc-02a/LJ-06a	xGc/a2Li	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Low woodland; kanji
Gc-02c/Hs-02a	a11Sb xGc/a2Sr t1Hi	Mosaic: Sedgeland; various sedges with very sparse snakewood/ Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i>
Gc-02a/HI-06a	xGc/t1Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex <i>Triodia pungens</i>
Gc-02a/HI-08a	xGc/t3Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>
P-02a/kGI-02a	e24,53Lra28Sct1,11Hi/b3LrcGc	Mosaic: Shrublands, pindan; <i>Acacia eripoda</i> shrubland with scattered low bloodwood & <i>Eucalyptus setosa</i> over soft & ?curly spinifex / Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over ribbon grass
HI-06a/HI-01c	oLrHi/e24Lrp1Hi	Mosaic: Hummock grasslands, open low tree steppe; desert walnut over soft spinifex between sandridges / Hummock grasslands, open low tree steppe; bloodwood (<i>E. dichromophloia</i>) over soft spinifex <i>Triodia pungens</i>
HI-03b/HI-06a	e23Lr.pHi/oLr.t1Hi	Mosaic: Hummock grasslands, open low tree steppe; desert bloodwood and feathertop spinifex (on) sandhills / Hummock grasslands, open low tree steppe; desert walnut over soft spinifex between sandridges
HI-01d/HI-02a	e24Lr.a2Sp.t1Hi/e16Lr.t3Hi	Mosaic: Hummock grasslands, open low tree steppe; bloodwood with sparse kanji shrubs over soft spinifex <i>Triodia pungens</i> / Hummock grasslands, open low tree steppe; snappy gum over <i>Triodia wiseana</i> lateritic crust
HI-03b/Hs-01e	e23Lr.pHi/anSr tpHi	Mosaic: Hummock grasslands, open low tree steppe; desert bloodwood and feathertop spinifex (on) sandhills / Hummock grasslands, shrub steppe; mixed shrubs over spinifex between sandhills
HI-02a/Hs-02a	e16Lrt3Hi/a2Sr t1Hi	Mosaic: Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> / Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i>
HI-01a/HI-09a	e16Lrt1Hi/t4Hi	Mosaic: Hummock grasslands, open low tree steppe; snappy gum over soft spinifex <i>Triodia pungens</i> / Hummock grasslands, grass steppe; hard spinifex <i>Triodia Intermedia</i> on laterite
HI-02a/LJ-02a	e16Lrt3Hi/a1Li	Mosaic: Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> / Low woodland; mulga in valleys

Appendix 1 Table 1 continued

Hi-04b/Hs-02j	a6Sb t3Hi/a11Sr t1Hi	Mosaic: Hummock grasslands, sparse shrub steppe; <i>Acacia bivenosa</i> over hard spinifex <i>Triodia wiseana</i> / Hummock grasslands, shrub-steppe; snakewood over <i>Triodia pungens</i>
Hs-02a/Hi-06c	t1,3Hi/a2Sr t1Hi	Mosaic: Hummock grasslands, grass steppe; soft & hard spinifex <i>Triodia pungens</i> & <i>T. wiseana</i> / Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i> in valleys
Mi-06u/Ci-05a	eMi/mLr.k1Ci	Mosaic: Medium woodland; goldfield eucalypts / Succulent steppe; saltbush, with open low woodland; myoporum
Sp-01c/Ci-02b	a8,10Sp/k1,2Ci	Mosaic: Shrublands; <i>Acacia sclerosperma</i> & <i>A. victoriae</i> scrub, barren / Succulent steppe; saltbush & bluebush
Sp-01b/Ci-02b	a8Sp/k1,2Ci	Mosaic: Shrublands; <i>Acacia sclerosperma</i> sparse scrub / Succulent steppe; saltbush & bluebush
Ci-03a/Sp-01e	k2Ci/a8,10,11Sp	Mosaic: Succulent steppe; bluebush / Shrublands; <i>Acacia sclerosperma</i> , <i>A. victoriae</i> & snakewood scrub patches
Sp-01f/Cp-01b	a10,11Sp/ kCp	Mosaic: Shrublands; <i>Acacia victoriae</i> & snakewood scrub patches / Scattered groups of succulents
Sp-02a/Ci-04a	mSp/k3Ci	Mosaic: Shrublands; melaleuca patchy scrub / Succulent steppe; samphire

Appendix 1 Table 2. List of the 199 Groups created by agglomerating related Types.

H CODE	BEARD FORMULA	VEGETATION DESCRIPTION
Tc-01	e1Tc	Tall forest; karni
Tc-02	e2Tc	Tall forest; jarrah
Ti-01	e4Ti	Tall woodland; tuart
Mc-01	e2,3,5Mc	Medium forest; jarrah-marri-wandoo
Mi-01	e2,3,5 Mi	Medium woodland; jarrah-marri-wandoo (also with e7,45,63)
Mi-02	e4Mi	Medium woodland; tuart (also with e2)
Mi-03	e37Mi	Medium woodland; yate (also with e3)
Mi-04	e5,45,64Mi	Medium woodland; wandoo-powderbark-mallet
Mi-05	eMi wheatbelt	Medium woodland; central wheatbelt e5,6,8,9,14,34,35
Mi-06	eMi goldfields	Medium woodland; eastern goldfields e10,11,12,13,14,22,34,39 (also with 6,8,9)
Mi-07	eMi river N	Medium woodland; riverain north of Eneabba e17,18 (with e 52)
Mi-08	eMi river S	Medium woodland; riverain south of Eneabba e18 (with e2,3,6,71,72 & ag)
Mi-09	eMi swamps	Medium woodland; swamp e7 (also with e5,6,8)
Mi-10	e48,49Mi (IPi)	Medium woodland; tropical messmate - stringybark & woollybutt (also with palms)
Mi-11	ecMi	Medium woodland; eucalypts & casuarina e2,6 & c2,5,6
Mi-12	c6Mi	Medium woodland; wetlands, casuarina
Mr-01	e2,3,5,Mr	Medium open woodland; jarrah, marri, wandoo
Mr-02	e4Mr	Medium open woodland; tuart
Mr-03	e18,Mr	Medium open woodland; swamp e18 with e3,6,
Mp-01	e2,3Mp	Medium sparse woodland
ML-01	e6pMLi	Medium-Low woodland eucalypt & callitris (cypress pine)
Lm-01	eMr bLi	Medium open woodland; eucalypt, with low woodland; banksia
Ld-01	xLd	Low dense forest; mixed tropical deciduous forest.
Lc-01	a23Lc	Low forest; <i>Acacia rostellifera</i>
Lc-02	pLc	Low forest; callitris (cypress pine)
Lc-03	mLc	Low forest; teatree
Lc-04	xLc	Low forest; mixed tropical deciduous forest.
Lc-05	e33,37,38Lc	Low forest; coastal

Appendix 1 Table 2 continued

Lc-06	e2Lc	Low forest; jarrah (also with e67,c)
Li-01	e2bLi	Low woodland; jarrah-banksia,
Li-02	a1Li	Low woodland; mulga, <i>Acacia aneura</i> continuous
Li-03	a1Li (sand)	Low woodland; mulga between sandridges
Li-04	a1nLi	Low woodland; mulga, <i>Acacia aneura</i> with other acacia
Li-05	aceLi	Low woodland; mulga with casuarina, callitris or eucalypts;
Li-06	aLi	Low woodland; other acacia a2,3,8,9,10,11,16
Li-07	eLi	Low woodland; eucalypts e2,6,8,40,44,67
Li-08	agLi	Low woodland; peppermint, <i>Agonis flexuosa</i>
Li-09	bLi	Low woodland; banksia
Li-10	bxLi	Low woodland; banksia & other spp; b1,2, e73, c5
Li-11	cLi	Low woodland; casuarina c2,5,
Li-12	ceLi, Lc	Low woodland; casuarina & eucalypt c2,7 e2,6,65
Li-13	mLi	Low woodland; paperbark
Lr-01	eLr	Open low woodland; other eucalypts e40,46
Lr-02	aLr	Open low woodland; acacia a1,9,
Lp-01	xLp	Sparse low woodland; acacia or eucalyptus, discontinuous in scattered groups
A-01	xLSc	Low forest/thicket mangrove
LS-01	xLSi	Shrublands; tree-heath or low trees & scrub e,m
SM-01	eMi aSi	Shrublands & medium woodland e6,17 over a9,19
Sm-01	eMr mSc	Shrublands; thicket with scattered medium trees e5,6,7,18 m5,6, or c
Sm-02	eMr aSi	Shrublands; scrub with scattered medium trees; eucalypts e6,22 over a9,19,23
Sm-03	ceMr aSi	Shrublands; scrub with scattered medium trees; eucalypts & casuarina e6,13, c2,5 over a9,14,19
Sm-04	eMr eaSi	Shrublands; mallee & acacia scrub with scattered emergent eucalypts
Sm-05	eMr eSi	Shrublands; mallee with scattered eucalypts;
SL-01	xLi aSi	Shrublands; scrub with scattered trees a1,c2,5,p over a9,17
SL-02	cLi eaSi	Shrublands; mallee & acacia scrub with scattered emergent casuarina
SI-01	Lr mSc or cdSc	Shrublands; thicket with scattered low trees e5,6,18,45 m5,6,c,d,
SI-02	a1Lr aSi	Shrublands; scrub with scattered low trees; mulga over a9
SI-03	xLr aSi	Shrublands; scrub with scattered low trees; eucalypts, casuarina, callitris e6,22,42,c2,p over a9,14,19)
Sc-01	acSc	Shrublands; thicket, acacia-casuarina alliance a19 c3,4,5,

Appendix 1 Table 2 continued

Sc-02	aSc	Shrublands; acacia thicket a12,13,14,19,22,23,31,32,34,35
Sc-03	amSc	Shrublands; thicket, acacia-melaleuca alliance a9,19,23 m3,6
Sc-04	cSc	Shrublands; thicket, casuarina c3
Sc-05	ecS	Shrublands; thicket, mallee-casuarina alliance
Sc-06	acmSc	Shrublands; thicket, acacia-casuarina-melaleuca alliance
Sc-07	cmSc	Shrublands; thicket, casuarina-melaleuca alliance
Sc-08	mSc	Shrublands; teatree thicket m 3, 4,5,6
Sc-09	xSc	Shrublands; thicket other
Si-01	a1nSi	Shrublands; mulga scrub, also with a8,9,10,11,14,17
Si-02	aSi NW	Shrublands; other wattle scrub a8,9,10,11,12,14,15,16,17,19,20,
Si-03	aSi SE	Shrublands; other wattle scrub a12,14,15,
Si-04	axSi	Shrublands; acacia & grevillea/banksia or melaleuca scrub
Si-05	agSi	Shrublands; peppermint scrub, <i>Agonis flexuosa</i>
Si-06	dSi	Shrublands; dryandra scrub
Si-07	mSi	Shrublands; teatree scrub
Si-08	eaSi	Shrublands; mallee & acacia scrub or thicket on coastal dunes
Si-09	e6Si	Shrublands; York gum & related species mallee scrub
Si-10	e9,Si	Shrublands; mallee scrub <i>Eucalyptus longicornis</i>
Si-11	e15Si	Shrublands; mallee scrub <i>Eucalyptus eremophila</i>
Si-12	e70Si	Shrublands; mallee scrub <i>Eucalyptus eudesmoides</i>
Si-13	e27Si	Shrublands; mallee scrub black marlock, <i>Eucalyptus redunca</i> & related spp
Si-14	e28Si	Shrublands; mallee scrub <i>Eucalyptus nutans</i>
Si-15	eSi	Shrublands; mallee other e22,30,31,36,37,38,43
Sr-01	a1nSr	Shrublands; mulga open scrub also with a9
Sr-02	aSr	Shrublands; acacia open scrub a8,10,11,21,23
Sp-01	aSp	Shrublands; acacia patchy/sparse scrub a1,8,10,11,17
Sp-02	mSp	Shrublands; melaleuca patchy scrub
SZ-01	eSZc	Shrublands; mallee-heath e2,26,65
SZ-02	aSZc	Shrublands; acacia scrub-heath
SZ-03	xSZc	Shrublands; scrub heath
SZ-04	hSZc	Shrublands; hakea scrub-heath

Appendix 1 Table 2 continued

Zc-01	xZc	Shrublands; heath x=a26,m4,d
Zc-02	dZc	Shrublands; dryandra heath
Zi-01	xZi	Shrublands; dwarf scrub a3, eremophila, cassia
Zr-01	xZr	Shrublands; open dwarf scrub on recent dunes (Pilbara coast)
Zp-01	xZp	Shrublands; patches of low scrub
P-01	eMi aSc p3Gi	Shrublands, pindan; acacia shrubland with co-dominant medium tree layer over spinifex e49,51,52,53, a29, c,t11=p3
P-02	xLr aSc tpHi or pGi	Shrublands, pindan; acacia shrubland with scattered low trees over spinifex a5,28,29,30 e24,53,58,59 t1,4,11 p3 c
KGM-01	eMi s1,2,Gc	Grasslands, high grass savanna woodland; white grass & upland tall grass (Kimberley)
KGM-02	eMi s2t(p)Gc	Grasslands, high grass savanna woodland; upland tall grass & curly spinifex (Kimberley)
KGM-03	eMi snGc	Grasslands, high grass savanna woodland;white grass &/or tall upland grass & others n= k,c,t. (Kimberley)
KGI-01	xLr s2nGc	Grasslands, high grass savanna low tree; b,e16,m,t, over upland tall grass & others n=d,t11 (Kimberley)
KGI-02	eLr sGc	Grasslands, high grass savanna low tree; eucalypts e=54,81 over white grass &/or upland tall grass. (Kimb.)
KG-01	be17Lb ads2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over mitchell, blue & tall upland grasses
KG-02	s2Gc	Grasslands; high grass savanna, white grass (Kimberley)
KGM-01	eMi cGc	Grasslands, tall bunch grass savanna woodland, e50,51 over ribbon grass & some blue grass (Kimberley)
kGm-01	e17Mr cGc	Grasslands, tall bunch grass savanna open woodland, coolabah (also e52,57) over ribbon/blue grass (+a2,d) (Kimberley)
kGL-01	eLi cGc	Grasslands, tall bunch grass savanna low woodland, grey box & cabbage gum over ribbon grass (Kimberley)
kGI-01	eLr cGc	Grasslands, tall bunch grass savanna low tree; e16,24,50,51,60, over ribbon grass & some blue & aristida grass (Kimberley)
kGI-02	b3Lr cGc	Grasslands, tall bunch grass savanna low tree;baobabs, bauhinia &/or, beefwood over ribbon grass (+a,d,t1,t11) (Kimberley)
kGI-03	mLr cGc	Grasslands, tall bunch grass savanna sparse low tree; paperbarks over ribbon grass (Kimberley)
kG-01	tLb a1Gc	Grasslands, tall bunch grass savanna, sparse low tree; terminalia over mitchell (+d) (Kimberley)
kG-02	xLb aGc/cdGc	Grasslands, tall bunch grass savanna sparse low tree; e17,b,a27 over mitchell & ribbon/blue grass on black soil (Kimberley)
kG-03	aGc/adGc	Grasslands, tall bunch grass savanna, mitchell & ribbon/blue grass (Kimberley)
Kgl-01	e54,61Lr egc	Grasslands, short bunch grass savanna low tree; Mt House box & bloodwood over enneapogon short grass (Kimberley)
Kgl-02	e16Lr egc	Grasslands, short bunch grass savanna low tree; snappy gum (+e61) over enneapogon short grass (Kimberley)
Kgl-03	bLragc	Grasslands, short bunch grass savanna low tree; bauhinia over short grasses (Kimberley)
Kg-01	egc	Grasslands, short bunch grass savanna; annual grasses on dry plains (Kimberley)
Kg-02	s3gc	Grasslands, short bunch grass savanna; salt water grassland (Kimberley)
kgM-01	eMi p3Gc	Grasslands, curly spinifex, tree savanna woodland; e16,24, p3=t11 (Kimberley)
kgL-01	eLi p3Gc	Grasslands, curly spinifex, low tree savanna woodland; e18,55,56 (Kimberley)

Appendix 1 Table 2 continued

kgl-01	eLr p3Gc	Grasslands, curly spinifex, low tree savanna; e16,24,49,58,b (Kimberley)
kgl-02	e16Lr ep3Gc	Grasslands, curly spinifex & short grass low tree savanna; e=16,24 (Kimberley)
kg-01	αLb p4Gi	Grasslands; sparse low tree savanna; ? <i>Andersonia gregorii</i> over <i>Plectrachne bynoei</i>
GM-01	eMi xGc	Sedgeland; sedges with medium woodland; sedges with coolabah over various sedges
Gm-01	eMr xGc	Sedgeland; sedges with open medium woodland or scattered medium trees e17,18
GL-01	eLi xGc	Sedgeland; sedges with low tree savanna woodland; coolabah over various sedges
GI-01	eLr xGc	Sedgeland; sedges with open low trees e17,40
Gc-01	xGc south	Sedgeland (mainly in the south-west)
Gc-02	xGc north	Short bunch grassland - savanna /grass plain
HM-01	cMi t1Hi	Hummock grasslands, tree steppe; desert oak & soft spinifex, <i>Casuarina decaisneana</i> , <i>Triodia pungens</i>
Hm-01	cMrt1Hi	Hummock grasslands ,open tree steppe; desert oak & spinifex between sandhills
HL-01	e60mLp p3Hi	Hummock grasslands, low tree steppe; silver-leaved box & melaleuca over plectrachne
HI-01	eLr t1Hi	Hummock grasslands, open low tree steppe; eucalypts e16,24 over soft spinifex <i>Triodia pungens</i>
HI-02	eLr t3Hi	Hummock grasslands, open low tree steppe; eucalypts 16,24 (+t) over <i>Triodia wiseana</i>
HI-03	eLr p(t11)Hi	Hummock grasslands, open low tree steppe; eucalypts 16,23,24 over curly spinifex
HI-04	eLr tn,pHi	Hummock grasslands, open low tree steppe; eucalypts e16,24,43,47,54 over spinifex t1,3,4,5,6,9,11,14
HI-05	bgLr t1Hi	Hummock grasslands, open low tree steppe; ?bauhinia & <i>Grevillea stiata</i> over soft spinifex
HI-06	oLr t1Hi	Hummock grasslands, open low tree steppe; desert walnut over soft spinifex between sandridges
HI-07	a1c2Lr t2Hi	Hummock grasslands, open low tree steppe; mulga, casuarina & hard spinifex
HI-08	a1Lr tHi	Hummock grasslands, open low tree steppe; mulga over spinifex
HIs-01	eLr aSr tHi	Hummock grasslands, low open/sparse tree and shrub steppe, eucalypts & acacia over spinifex
HIs-02	eLr eSr tHi	Hummock grasslands, open tree and mallee steppe; eucalypts over & hard spinifex <i>Triodia basedowii</i>
HS-01	eSi t8Hi	Hummock grasslands, mallee steppe; mallee & spinifex
Hs-01	axSr p,tHi	Hummock grasslands, shrub steppe; Acacia over spinifex a3,5,9,11 x= grevillea, hakea over t2,p
Hs-02	aSr t1Hi	Hummock grasslands, shrub steppe; Acacia over soft spinifex a2,3,4,5,10,11,28,29 over t1
Hs-03	aSr t2Hi	Hummock grasslands, shrub steppe; Acacia over hard spinifex a2,5,6,11 over t2
Hs-04	aSr t1,2Hi	Hummock grasslands, shrub steppe; Acacia over soft & hard spinifex a2 over t1,2
Hs-05	aSr t1,3Hi	Hummock grasslands, shrub steppe; Acacia over soft & hard spinifex a2,5,10,11 over t1,2
Hs-06	aSr tHi	Hummock grasslands, shrub steppe; Acacia over other spinifex a2,5,10,11 over t1,3,4,6,9
Hs-07	g,hSr t1Hi	Hummock grasslands, shrub steppe; <i>Grevillea refracta</i> / hakea over soft spinifex

Appendix 1 Table 2 continued

Hs-08	a1Sr tHi	Hummock grasslands, shrub steppe; mulga over soft/ hard spinifex also with a2,11over t1,2,3
Hs-09	a1eSr tHi	Hummock grasslands, shrub steppe; mulga and mallee over spinifex e21,22over t1,2
Hs-10	eSr tHi	Hummock grasslands, shrub steppe; mallee over spinifex e20,22,25 over t2,8,
Hz-01	aZr t1Hi	Hummock grasslands, dwarf-shrub steppe; acacia over soft spinifex a18
Hi-01	xM/Lb t3Hr	Hummock grasslands, sparse medium & low tree steppe over open spinifex a1,x, α
Hi-02	eLb t1/4Hi	Hummock grasslands, sparse tree steppe; eucalypts over soft spinifex <i>Triodia pungens</i>
Hi-03	eLb tHi	Hummock grasslands, sparse tree steppe; eucalypts over other spinifex t1,2,3,4,5,7
Hi-04	aSb tHi	Hummock grasslands, sparse shrub steppe; acacia over spinifex a2,6,7 over t1,2,3,6,7
Hi-05	aSp tHi	Hummock grasslands, patchy shrub steppe; acacia over spinifex a 1,5 t1,2
Hi-06	t1Hi	Hummock grasslands, grass steppe, mainly soft spinifex <i>Triodia pungens</i>
Hi-07	t2Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia basedowii</i>
Hi-08	t3Hi	Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>
Hi-09	tHi (other)	Hummock grasslands, grass steppe;spinifex other <i>Triodia</i> spp t2,3,4,5,&p3
HX-01	eLr p/Hi xZp	Hummock grasslands, mixed sandplain - scattered low trees over sparse dwarf shrubs with spinifex
HX-02	e22Sr tHi xZp	Hummock grasslands, mixed sandplain -open mallee over sparse dwarf shrubs with spinifex
HX-03	a9Si xZp t,pHi	Hummock grasslands, mixed sandplain; bowgada, sugarbrother, some spinifex
HX-04	anSZr t1,2Hi	Hummock grassland; shrub steppe; mixed scrub & dwarf scrub with spinifex
HX-05	xSi t2ZHi	Hummock grassland; shrub steppe; mixed scrub, spinifex with dwarf shrubs
HX-06	xZHc	Hummock grassland; shrub steppe; mixed Hummock grassland; shrubs and spinifex (Shark Bay)
HG-01	xHGt	Mixed short grass and spinifex
SCM-01	eMi mSc kCi	Succulent steppe; eucalypt woodland, teatree thicket & saltflats
SCm-01	eMr mSc k3Ci	Succulent steppe; eucalypt open woodland, teatree thicket & samphire e5,6,8 c6
CM-01	eMi kCi	Succulent steppe; eucalypt/casuarina woodland & saltflats e6,8,34,c6 m5 over k1,2,3
Cm-01	eMr kCi	Succulent steppe; saltflats & scattered eucalypts
SC-01	eMp mSc kCi	Succulent steppe; eucalypt sparse woodland, teatree scrub & samphire
SC-02	mSc kCi	Succulent steppe; teatree thicket over samphire
CL-01	mLi k3Ci	Succulent steppe; myoporum low woodland over samphire
CL-02	a1Li kCi	Succulent steppe with low woodland; mulga
CL-03	aLi kCi	Succulent steppe with low woodland; other acacia
CL-04	cLi kCi	Succulent steppe with low woodland; sheoak

Appendix 1 Table 2 continued

CL-05	a1c2Li Ci	Succulent steppe with open low woodland; mulga & sheoak
CI-01	cLr kCi	Succulent steppe with open low woodland; sheoak
CI-02	a1LrkCi	Succulent steppe with open low mulga
CI-03	a1c2Lr kCi	Succulent steppe with open low woodland; mulga & sheoak
CI-04	aLr kCi	Succulent steppe with open low woodland; <i>A. papyrocarpa</i>
CI-05	mLr kCi	Succulent steppe with open low woodland; myoporum
CS-01	aSi kCi	Succulent steppe with wattle scrub (a1,3,8,9,11)
Cs-01	a1Sr,r kCi	Succulent steppe; saltbush & bluebush with scattered mulga shrubs (+a8)
Cs-02	aSr kCi	Succulent steppe with scattered wattle (k1,2,3 a3,8)
Ci-01	x/kCi	Succulent steppe; various species xk1,k2 &/or k3
Ci-02	k1Ci	Succulent steppe; mainly saltbush
Ci-03	k2Ci	Succulent steppe; mainly bluebush
Ci-04	k3Ci	Succulent steppe; samphire
Cr-01	kCr	Succulent steppe; open succulents
Cp-01	kCp	Succulent steppe; scattered groups of succulents
BA	sl,fl,r,cl,m	Bare areas; drift sand,salt & freshwater lakes, rock outcrops,claypans, mud flats

Appendix 1 Table 3. List of the 50 Supergroups created by agglomerating related Types beyond the Group level. This list forms the basis for the key to the new 1:3,000,000 scale map of the vegetation of Western Australia.

Col	H CODE	BEARD FORMULA	VEGETATION DESCRIPTION
1	Tc	e1Tc	Tall forest; mainly karri
2	Ti	e4Ti	Tall woodland; tuart
3	Mc	e2,3,5Mc	Forest; jarrah-marri-wandoo
4	Mi	e2,3,5 Mi	Woodland; jarrah-mami-wandoo
5	Mi	eMi	Woodland; other
6	Mr	eMr; eMp	Open woodland
7	ML,Lm	e6pMLi; eMrbLi	Medium-Low woodland
8	Ld,Lc	xLd; xLc	Low dense forest & Low forest
9	Lc,Li	eLc; eLi	Low forest & woodland; mainly jarrah
10	Li-02	a1Li; Lr; Lp	Low woodland; mulga
11	Li,Lr	xLi; xLr	Low woodland; other
12	A	xLc,Sc	Low forest/thicket; mangrove
13	LS	xLSi	Tree-heath
14	SM,m,L,I	xMi,Mr,Li,Lr aSi	Acacia scrub with scattered trees
15	Sm	eMr,Lr mSc	Thicket with scattered trees
16	Sm	eMr,Li eaSi	Mallee scattered trees
17	Sc	acmSc	Thicket
18	Si	a,xSi	Scrub, acacia & other species
19	Si	eSi	Mallee
20	Sr	aSr,mSp	open scrub
21	SZ	eSZc	Mallee-heath
22	SZ	aSZc	Scrub-heath
23	Zc	xZc	Heath
24	Zi,r,p	xZi,r,p	Dwarf scrub
25	P(M)-01	eMi aSc p3Gi	Pindan with medium trees
26	P(L)-02	xLr aSc t,pGi	Pindan with low trees
27	KGM,L	eMi, xLr sGc	Grasslands, high grass savanna
28	kGM,m,L,I	eMi,eMi,eLi,xLr acGc	Grasslands, tall bunch grass savanna
29	Kgl	e,bLr egc	Grasslands, short bunch grass savanna
30	kgM,L,I	eMi,eLi,eLr p3Gc	Grasslands, curly spinifex savanna
31	GM-01	eMi,eMr,eLi,eLr xGc	Sedgeland with trees
32	Gc	xGc south	Sedgeland (mainly in the south-west)
33	Gc	xGc north	Short grassland (north)
34	HM,m	cMi,cMr t1Hi	Tree steppe
35	HL,I	emLi,xLr p,tHi	Low tree steppe
36	Hls	eLr aSr tHi	Tree and shrub steppe
37	Hs,z	a,e,g,hSr,Zr p,tHi	Shrub steppe
38	Hi	xMb,Lb tHr	Low tree steppe
39	Hi	aSb,p tHi	Sparse shrub steppe
40	Hi	tHi	Grass steppe
41	HX, HG	eLr,aSr p,tHi xZp	Spinifex complexes
42	SCM,m	eMi,eMr,eMp mSc kCi	Succulent steppe with thicket & scattered trees
43	CM,m	eMi,eMr kCi	Succulent steppe with scattered trees
44	SC/CS,s	mSc aSi,aSrkCi	Succulent steppe with scrub
45	CL	a,c, m,Li k3Ci	Succulent steppe with low trees
46	CI	a,c,mLr kCi	Succulent steppe with open low trees
47	Ci,r,p	x/kCi,kCr,kCp	Succulent steppe
48	Fi-01	xFi	Herbfield
49	ds,sl,r,md,fl	n/a	Bare areas; sand, lakes, rock, mud

Appendix 1 Table 4. Adaptation of Beard's classification scheme showing the physiognomic types recognised by Beard in mapping the vegetation of the State.

Physiognomy of dominant stratum	Density					
	d: Dense canopy Projective foliage cover >70%	c: Mid-dense canopy; open Projective foliage cover 30-70%	i: Incomplete canopy Projective foliage cover 10-30%	r: Rare but conspicuous Projective foliage cover <10%	b: Barren Projective foliage cover ≤0%	p: Scattered groups Projective foliage cover ≤0%
T: Tall trees >25m tall		Tc	Ti			
M: Medium trees 10-25m tall		Mc	Mi (MLi)	Mr		Mp
L: Low trees <10m tall	Ld	Lc (LSc mangle)	Li (LM/MrLi)	Lr		Lp
S: Shrubs > 1m tall		Sc (SM /MrSc) (SL /MrSc) (SZc)	Si (LS /Lsi) (SM/MiSi) (SL /LrSi) (SM/MrSi) (sm/MrSi) (SL/LrSi) (P/P-MSH Pindan) (P/P-LSH Pindan)	Sr		Sp
Z: Dwarf shrubs < 1m tall		Zc	Zi	Zr		Zp

G: Bunch grasses		Kg (Gc) KgM (MiGc) kgL (LiGc, LrGc) GM(MrGc) GL(LiGc) Gc (KGM/MiGc) (KGL/LrGc) (KG/LbGc) (KGM/MiGc) (KGL/LrGc) (KG/LbGc) (KgL/LrGc)	kg (LbGi)			
H: Hummock grasses (spinifex)			HM (MiHi) HM (MrHi) HL (LiHi) HL (LrHi) Hi (M,LbHi) Hi (LbHi)			

Appendix 1 Table 4 continued

			HLS (LrSrHi) HS (SiHi) HS (SrHi) Hi (SrHi) Hi (SbHi) Hi (SbHi) Hi (SpHi) ZH (ZrHi) Hi HX (LZH) HX (SZH) HX (ZH) (HG/HG)			
F: Forbs			Fl			
X: Lichens and mosses						
C: Succulents			CM (MiCi) CM (MrCi) SCM (MiScCi) SCM (MrScCi) SC (MpScCi) CL (LiCi) CL (LrCi) SC (ScCi) CS (SiCi) Cs (SrCi) Ci	Cr		Cp

**Australian Nature Conservation Agency
National Reserves Systems Co-operative Program
Project No N703**

**Conservation Status of Vegetation Types
throughout Western Australia.**

Final Report

May 1996

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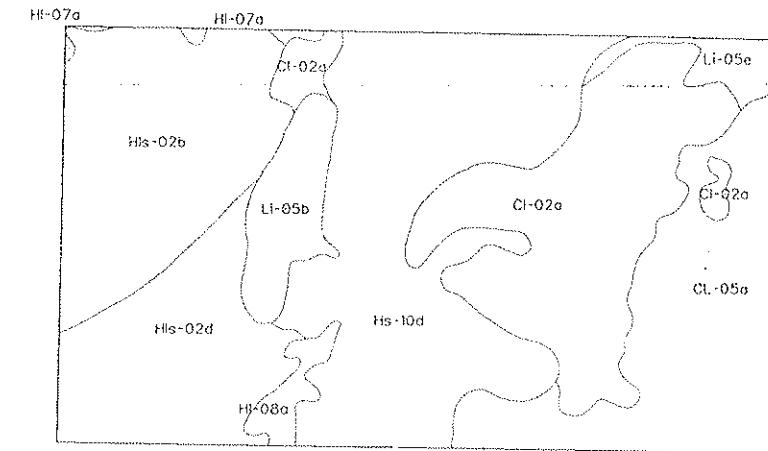
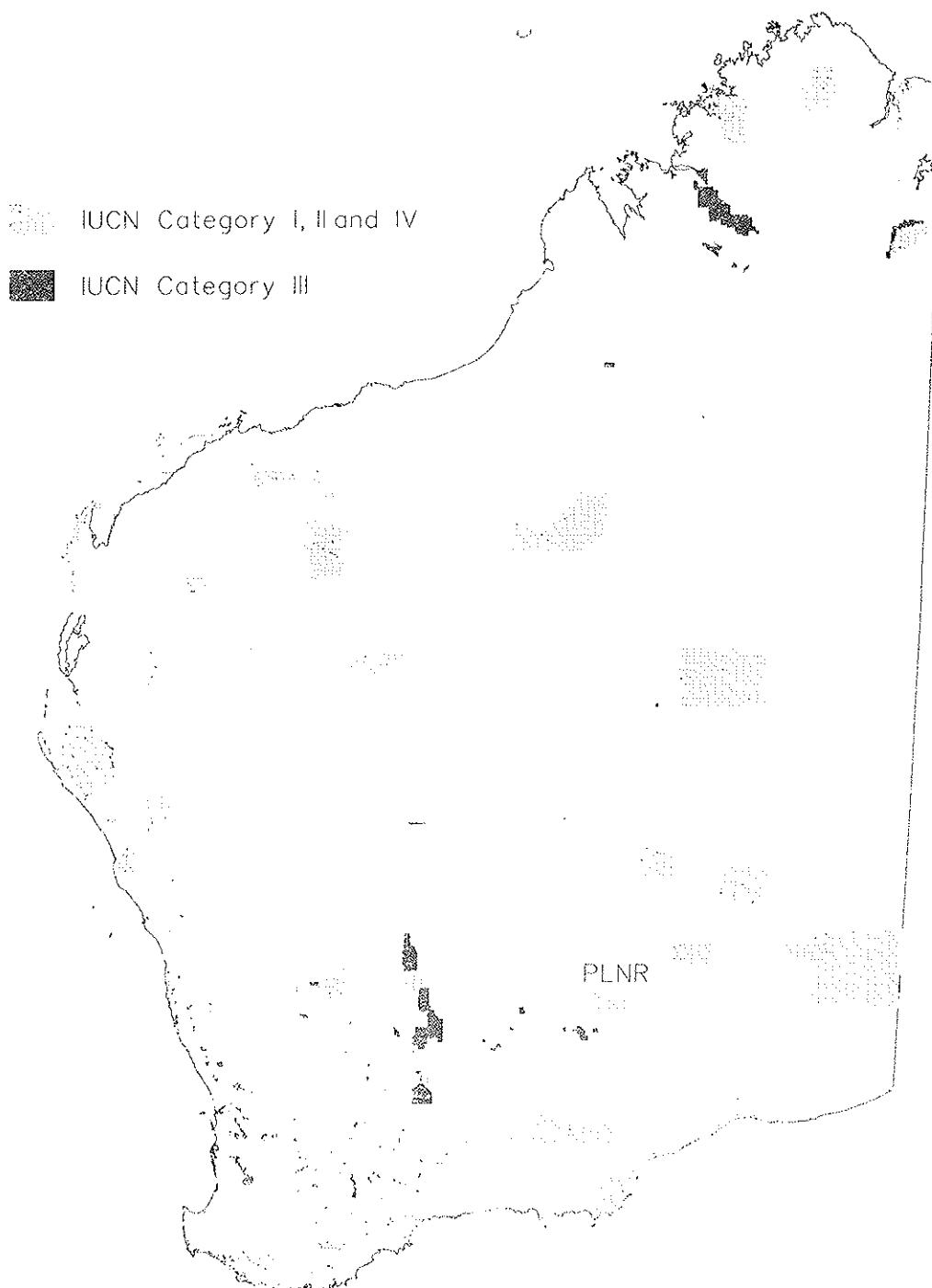
Appendix 2.

**Maps and tables of vegetation types included within each area of the
conservation estate.**

Figure 1 Figure 1. Sample map of a portion of the CALM-managed conservation estate showing the vegetation types within the Plumridge Lakes Nature Reserve.

Table 1. Vegetation types occurring in each parcel of the CALM-managed conservation estate. Area of each vegetation type and percentage of the total area of each reserve are also given.

Appendix 2 Figure 1. Sample map of a portion of the CALM-managed estate showing the vegetation types within Plumridge Lakes Nature Reserve



Hopkins Code	Area (ha)	%	Description
HS-02d	37,090	12	Hummock grassland; open low tree steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex
CL-05a	51,403	17	Succulent steppe; blue bush with open low woodland; mulga & sheoak
CI-02a	61,265	19	Succulent steppe; saltbush with open low mulga
HI-08e	4,426	1	Hummock grasslands; open low tree steppe; mulga & hard spinifex
HI-07a	1,160	0.3	Hummock grasslands; open low tree steppe; mulga
HS-02b	50,753	16	Hummock grasslands; open low tree & mallee steppe over hard spinifex
LI-05c	13,512	4.2	Low woodland; mulga & <i>Casuarina</i>
LI-05e	6,045	2	Low woodland; mulga & <i>A. cristata</i>

Appendix 2. Vegetation types included within each parcel of the conservation estate in Western Australia

Calm Estate Name : 10719		PI Number: 10719		
Lat: -31.73639 Long: 117.7819	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	11	100
			11	
Calm Estate Name : 10914		PI Number: 10914		
Lat: -34.03927 Long: 117.6311	District: Katanning			
HopkinCode	BeardsCode	Description	Area	%
Mr-01c/Zc-01e	e5Mr/xZc	Mosaic: Medium open woodland; wandoo / Shrublands, mixed heath	7	100
			7	
Calm Estate Name : 10930		PI Number: 10930		
Lat: -33.21708 Long: 117.7593	District: Katanning			
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	41	100
			41	
Calm Estate Name : 11024		PI Number: 11024		
Lat: -31.80777 Long: 117.5969	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	22	100
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire		0
			22	
Calm Estate Name : 11522		PI Number: 11522		
Lat: -31.26292 Long: 118.1286	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Sc-01a	ac3Sc	Shrublands; thicket, acacia & Allocasuarina campestris	155	69
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	69	31
			225	
Calm Estate Name : 11993		PI Number: 11993		
Lat: 0 Long: 0	District:			
HopkinCode	BeardsCode	Description	Area	%
Li-01a	e2bLi	Low woodland; jarrah-banksia		100
Calm Estate Name : 12154		PI Number: 12154		
Lat: -30.89422 Long: 117.363	District: Merredin			

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	22	35
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	40	65
			62	
Calm Estate Name : 1224		PI Number: 1224		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	53	44
SZ-03j/Zc-02a	xSzC/dZc	Mosaic: Shrublands; scrub-heath / shrublands; dryandra heath	67	56
			120	
Calm Estate Name : 12333		PI Number: 12333		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	41	100
			41	
Calm Estate Name : 12914		PI Number: 12914		
Lat: -31.16721 Long: 117.3387 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	7	100
			7	
Calm Estate Name : 12958		PI Number: 12958		
Lat: -29.25621 Long: 115.8669 District: Geraldton				
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	23	26
Sc-07a	cmSc	Shrublands; thicket, casuarina-metaleuca alliance	64	74
			87	
Calm Estate Name : 13032		PI Number: 13032		
Lat: -29.09245 Long: 115.9648 District: Geraldton				
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	67	100
			67	
Calm Estate Name : 13057		PI Number: 13057		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	135	100
			135	
Calm Estate Name : 13063		PI Number: 13063		
Lat: -33.18242 Long: 118.286 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	42	100

Appendix 2 continued

42

Calm Estate Name : 13102
Lat: -33.84153 Long: 117.0747 District: Katanning PI Number: 13102

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	16	100
			16	

Calm Estate Name : 13217
Lat: 0 Long: 0 District: PI Number: 13217

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	24	100
			24	

Calm Estate Name : 13289
Lat: -34.14294 Long: 117.6683 District: Katanning PI Number: 13289

HopkinCode	BeardsCode	Description	Area	%
CL-01a	mLi k3Ci	Succulent steppe; myoporum low woodland over samphire	9	30
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	20	70
			28	

Calm Estate Name : 13306
Lat: -30.48172 Long: 117.228 District: Merredin PI Number: 13306

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	17	100
			17	

Calm Estate Name : 13438
Lat: 0 Long: 0 District: Katanning PI Number: 13438

HopkinCode	BeardsCode	Description	Area	%
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	32	19
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	124	72
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	17	9
			172	

Calm Estate Name : 13594
Lat: -31.67922 Long: 118.355 District: Merredin PI Number: 13594

HopkinCode	BeardsCode	Description	Area	%
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	41	100
			41	

Appendix 2 continued

Calm Estate Name : 13971		PI Number: 13971		
Lat: -31.46774 Long: 116.294	District: Mundaring			
HopkinCode	BeardsCode	Description	Area	%
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	25	100
			25	
Calm Estate Name : 14083		PI Number: 14083		
Lat: -31.19576 Long: 117.5191	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo,York gum, salmon gum, morrel & gimlet	13	100
			13	
Calm Estate Name : 14114		PI Number: 14114		
Lat: -31.13955 Long: 117.1856	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo,York gum, salmon gum, morrel & gimlet	152	103
			152	
Calm Estate Name : 14296		PI Number: 14296		
Lat: -29.78019 Long: 116.536	District: Geraldton			
HopkinCode	BeardsCode	Description	Area	%
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	54	66
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	28	34
			81	
Calm Estate Name : 14297		PI Number: 14297		
Lat: -29.82604 Long: 116.5289	District: Geraldton			
HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	47	100
			47	
Calm Estate Name : 14569		PI Number: 14569		
Lat: -31.37008 Long: 117.305	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	38	100
			38	
Calm Estate Name : 14694		PI Number: 14694		
Lat: 0 Long: 0	District:			
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05c	e6Mi	Medium woodland; York gum	41	100
			-----	41
Calm Estate Name : 14907		PI Number: 14907		
Lat: -30.50745 Long: 116.9647 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	175	100
			-----	175
				175
Calm Estate Name : 15057		PI Number: 15057		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-05c	e6Mi	Medium woodland; York gum	91	99
			-----	91
				91
Calm Estate Name : 15061		PI Number: 15061		
Lat: -33.73601 Long: 117.1254 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	16	100
			-----	16
				16
Calm Estate Name : 15121		PI Number: 15121		
Lat: -33.46224 Long: 117.8912 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	4	100
			-----	4
				4
Calm Estate Name : 15197		PI Number: 15197		
Lat: -33.21253 Long: 117.7344 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	56	100
			-----	56
				56
Calm Estate Name : 15199		PI Number: 15199		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	2	100
			-----	2
				2
Calm Estate Name : 15312		PI Number: 15312		
Lat: -30.3484 Long: 116.733 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	2	100
			-----	2
				2

Appendix 2 continued

2

Calm Estate Name : 15564		PI Number: 15564		
Lat: -30.9951	Long: 117.8467	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	16	89
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	2	11
Calm Estate Name : 1563		PI Number: 1563		
Lat: -31.43134	Long: 116.7983	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	23	24
SC-02a	m5Sc k3Ci	Succulent steppe; Melaleuca thyoides thicket over samphire	74	74
SZ-03j	xSZc	Shrublands; scrub-heath	2	2
			100	
Calm Estate Name : 15787		PI Number: 15787		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	2	100
			2	
Calm Estate Name : 15788		PI Number: 15788		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	2	100
			2	
Calm Estate Name : 15816		PI Number: 15816		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	36	100
			36	
Calm Estate Name : 15855		PI Number: 15855		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	41	100
			41	
Calm Estate Name : 15928		PI Number: 15928		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	20	100

Appendix 2 continued

20

Calm Estate Name : 16000		PI Number: 16000		
Lat: -31.36425	Long: 118.7943	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	0	
Mi-05k	e9,35Mi	Medium woodland; morrell & blackbutt	1004	58
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	714	42
				1718
Calm Estate Name : 16068		PI Number: 16068		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	54	100
				54
Calm Estate Name : 16245		PI Number: 16245		
Lat: -30.8154	Long: 117.4804	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	27	11
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	235	89
				262
Calm Estate Name : 16281		PI Number: 16281		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	32	100
				32
Calm Estate Name : 16293		PI Number: 16293		
Lat: -31.53929	Long: 118.0527	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	1	
SZ-03j/Sc-04a	xSzC/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	21	99
Calm Estate Name : 16319		PI Number: 16319		
Lat: -30.84178	Long: 116.6705	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	2	46
Sc-09b	c3dSc	Shrublands; Tamma & Dryandra thicket	3	54
				5
Calm Estate Name : 16329		PI Number: 16329		

Appendix 2 continued

Lat: -29.27881 Long: 116.0932 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	6	100
			6	

Calm Estate Name : 16331

PI Number: 16331

Lat: -27.95413 Long: 114.7392 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
SZ-03b	x3SzC	Shrublands; scrub-heath on sandplain	54	81
Sm-03a	c5e6Mr a19Si	Shrublands; jam scrub with scattered casuarina & York gum	12	18
			66	

Calm Estate Name : 1644

PI Number: 1644

Lat: -17.97247 Long: 122.2316 District: West Kimberley

HopkinCode	BeardsCode	Description	Area	%
P-01b	e50,51Mi a29Sc cpGi	Shrublands, pindan; Acacia tumida shrubland with grey box & cabbage gum medium woodland over ribbon grass & curly spinifex	1	98
			1	

Calm Estate Name : 16560

PI Number: 16560

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	45	100
			45	

Calm Estate Name : 16901

PI Number: 16901

Lat: -33.87844 Long: 117.9125 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	18	100
			18	

Calm Estate Name : 16932

PI Number: 16932

Lat: -31.21064 Long: 118.1731 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-01a	ac3Sc	Shrublands; thicket, acacia & Allocasuarina campestris	539	100
			539	

Calm Estate Name : 16945

PI Number: 16945

Lat: -33.46123 Long: 117.894 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	2	100

Appendix 2 continued

2

Calm Estate Name : 1703		PI Number: 1703		
Lat: -33.84535 Long: 117.4647	District: Katanning			
HopkinCode	BeardsCode	Description	Area	%
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	8	100
			8	
Calm Estate Name : 177/25		PI Number: 177/25		
Lat: 0 Long: 0	District:			
HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	23	58
Mi-01g	e2,63Mi	Medium woodland, jarrah & Eucalyptus haematoxylon (Whicher Ra.)	17	42
			39	
Calm Estate Name : 17710		PI Number: 17710		
Lat: -31.16554 Long: 117.0803	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	105	100
			105	
Calm Estate Name : 17771		PI Number: 17771		
Lat: -30.79378 Long: 117.6686	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	101	100
			101	
Calm Estate Name : 17778		PI Number: 17778		
Lat: -30.68529 Long: 116.8947	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	23	100
			23	
Calm Estate Name : 17798		PI Number: 17798		
Lat: -31.17333 Long: 118.2828	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	64	100
			64	
Calm Estate Name : 17946		PI Number: 17946		
Lat: -27.93045 Long: 115.2322	District: Geraldton			
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

SZ-03b	x3SzC	Shrublands; scrub-heath on sandplain	7	3
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance	37	14
Sm-02e	e6,22Mr a9,19si	species Shrublands; bowgada & jam scrub with scattered York gum & red mallee	215	83

			258	

Calm Estate Name : 18155 PI Number: 18155

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	6	100

			6	

Calm Estate Name : 18199 PI Number: 18199

Lat: -31.35813 Long: 118.5647 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	91	52
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	82	47
r	n/a	Bare areas; rock outcrops	1	1

			174	

Calm Estate Name : 185/25 PI Number: 185/25

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	555	47
Li-01a	e2bLi	Low woodland; jarrah-banksia	396	34
Si-05a	agsi	Shrublands; peppermint scrub, Agonis flexuosa	216	18

			1167	

Calm Estate Name : 18583 PI Number: 18583

Lat: -31.37799 Long: 118.7244 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	797	76
Si-9c/Mi-05i	e6,39Si/e5,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; wandoo & gimlet	238	23

			1035	

Calm Estate Name : 18584 PI Number: 18584

Lat: -31.34117 Long: 118.7747 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	4	1
Mi-05k	e9,35Mi	Medium woodland; morrell & blackbutt	375	64
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	204	34

			583	

Appendix 2 continued

Calm Estate Name : 186/25		PI Number: 186/25		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	41	100
			41	
Calm Estate Name : 18698		PI Number: 18698		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Ci-04a sl	k3Ci n/a	Succulent steppe; samphire Bare areas; salt lakes	1 148	0 99
			148	
Calm Estate Name : 18950		PI Number: 18950		
Lat: -30.79016	Long: 117.6663	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	4	100
			4	
Calm Estate Name : 19036		PI Number: 19036		
Lat: -30.79642	Long: 117.6741	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	10	100
			10	
Calm Estate Name : 19068		PI Number: 19068		
Lat: -33.85268	Long: 117.7866	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	44	100
			44	
Calm Estate Name : 19075		PI Number: 19075		
Lat: 0	Long: 0	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	136	100
			136	
Calm Estate Name : 19080		PI Number: 19080		
Lat: -33.39267	Long: 118.2838	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	81	100
Calm Estate Name : 19081		PI Number: 19081		

Appendix 2 continued

Lat: -33.4048 Long: 118.2727 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	120	88
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	18	13
			138	

Calm Estate Name : 19085

Lat: -33.10732 Long: 117.6759 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	106	35
Zc-02a	dZc	Shrublands; dryandra heath	196	65
			301	

Calm Estate Name : 19086

Lat: -33.11804 Long: 117.6798 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	5	26
Zc-02a	dZc	Shrublands; dryandra heath	13	74
			18	

Calm Estate Name : 19118

Lat: 0 Long: 0 District:

PI Number: 19118

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	88	85
Mi-05c	e6Mi	Medium woodland; York gum	16	15
			103	

Calm Estate Name : 19119

Lat: 0 Long: 0 District:

PI Number: 19119

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	18	43
Mi-05c	e6Mi	Medium woodland; York gum	24	57
			43	

Calm Estate Name : 19121

Lat: 0 Long: 0 District:

PI Number: 19121

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	37	100
			37	

Calm Estate Name : 19209

Lat: -30.99974 Long: 118.699 District: Merredin

PI Number: 19209

HopkinCode	BeardsCode	Description	Area	%
CS-01g	asi k1ci	Succulent steppe; saltbush with acacia species	6	5

Appendix 2 continued

Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	49	43
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	60	52

			115	
Calm Estate Name : 194/25		PI Number: 194/25		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
CM-01c	e8Mi k2Ci	Succulent steppe; salmon gum woodland & bluebush	1191	42
Mi-06h	e13Mi	Medium woodland; goldfields blackbutt	1636	58

			2827	
Calm Estate Name : 19613		PI Number: 19613		
Lat: -28.40231	Long: 115.0909	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	8	100

			8	
Calm Estate Name : 197/25		PI Number: 197/25		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	3036	81
Mi-06k sl	e14,22Mi n/a	Medium woodland; Dundas blackbutt & red mallee Bare areas; salt lakes	498	14
			107	3

			3641	
Calm Estate Name : 19741		PI Number: 19741		
Lat: 0	Long: 0	District: Mundaring		
HopkinCode	BeardsCode	Description	Area	%
Li-12e	c5e6Li	Low woodland; A. huegeliana& York gum	15	35
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	28	65

			44	
Calm Estate Name : 19825		PI Number: 19825		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Cl-01a	c2Lr k1Ci	Succulent steppe; saltbush with open low woodland; sheoak	188	1
Li-05a	a1c2eLi	Low woodland; mulga mixed with Allocasuarina cristata, & Eucalyptus sp (e6)	13395	99

			13583	
Calm Estate Name : 1\10		PI Number: 1\10		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	331	5
Sc-03a	a9,19m6Sc	Shrublands; bowgada, jam and Melaleuca uncinata thicket	5288	82
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	1	0

Appendix 2 continued

sl-03b	e6,22Lr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum & red mallee	450	7
Sm-02e	e6,22Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum & red mallee	166	3
sl	n/a	Bare areas; salt lakes	197	3

			6433	

Calm Estate Name : 20046
Lat: -33.34579 Long: 118.3085 District: Katanning

PI Number: 20046

HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	268	68
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	128	33

			396	

Calm Estate Name : 20342
Lat: 0 Long: 0 District:

PI Number: 20342

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	396	41
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	563	59

			959	

Calm Estate Name : 20349
Lat: -33.35055 Long: 119.331 District: Katanning

PI Number: 20349

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	52	3
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1731	97

			1783	

Calm Estate Name : 20350
Lat: -33.31426 Long: 119.2655 District: Katanning

PI Number: 20350

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	573	30
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1390	71

			1963	

Calm Estate Name : 20435
Lat: -33.648 Long: 116.9479 District: Katanning

PI Number: 20435

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	167	100

			167	

Calm Estate Name : 20479
Lat: -33.18744 Long: 117.3419 District: Katanning

PI Number: 20479

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	66	100

			66	

Appendix 2 continued

Calm Estate Name : 20635		PI Number: 20635		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-05c r	e6Mi n/a	Medium woodland; York gum Bare areas; rock outcrops	33 17	66 34
			50	
Calm Estate Name : 2069		PI Number: 2069		
Lat: -28.79802	Long: 115.0613	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
SZ-03a Sm-02c	x2SzC e6Mr a19Si	Shrublands; scrub-heath on coastal association Shrublands; jam scrub with scattered York gum	60 149	29 71
			209	
Calm Estate Name : 2087		PI Number: 2087		
Lat: -33.32891	Long: 117.3614	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
SCm-01c	e5,8c6Mr mSi k3Ci	Succulent steppe; wandoo, salmon gum & Allocasuarina obesa open woodland, teatree scrub & samphire	39	62
sl	n/a	Bare areas; salt lakes	24	39
			63	
Calm Estate Name : 20877		PI Number: 20877		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-04b Mi-05c	e64,45Mi e6Mi	Medium woodland; powderbark & mallet Medium woodland; York gum	4 6	41 59
			11	
Calm Estate Name : 20878		PI Number: 20878		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-04b Mi-05c	e64,45Mi e6Mi	Medium woodland; powderbark & mallet Medium woodland; York gum	8 16	33 68
			24	
Calm Estate Name : 20985		PI Number: 20985		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
-----	-----	-----	-----	-----
Mi-04d Mi-05b	e5,64Mi e5,6,8Mi	Medium woodland; wandoo & mallet Medium woodland; York gum, wandoo & salmon gum	38 25	60 40
			64	
Calm Estate Name : 20987		PI Number: 20987		
Lat: 0	Long: 0	District: Katanning		

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-04f	e5,9,69Mi	Medium woodland; wandoo, morrell & blue mallet	52	91
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	5	9
			57	
Calm Estate Name : 21064 Lat: -33.25845 Long: 117.173 District: Katanning		PI Number: 21064		
HopkinCode	BeardsCode	Description	Area	%
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	78	69
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	35	31
			112	
Calm Estate Name : 21140 Lat: -28.91038 Long: 115.4304 District: Geraldton		PI Number: 21140		
HopkinCode	BeardsCode	Description	Area	%
SZ-03b	x3SZc	Shrublands; scrub-heath on sandplain	254	83
Sm-02d	e6Mr a19,23Si	Shrublands; jam and A. rostellifera or hakea scrub with scattered York gum	54	17
			308	
Calm Estate Name : 21164 Lat: 0 Long: 0 District:		PI Number: 21164		
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	35	91
Mr-03a	e3,18Mr	Medium woodland; marri & river gum	4	9
			38	
Calm Estate Name : 21175 Lat: -30.02416 Long: 116.3195 District: Moora		PI Number: 21175		
HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	121	100
			121	
Calm Estate Name : 21176 Lat: 0 Long: 0 District:		PI Number: 21176		
HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	11	100
			11	
Calm Estate Name : 21196 Lat: -31.69447 Long: 117.9671 District: Merredin		PI Number: 21196		
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	1	47
Sc-01c	a19c5Si	Shrublands; thicket, jam & Allocasuarina huegelliana	1	53

Appendix 2 continued

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Calm Estate Name : 21424		PI Number: 21424		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c SZ-03j/Sc-04a	e6Mi xS2c/c3Sc	Medium woodland; York gum Mosaic: Shrublands; scrub-heath / Shrublands; <i>Allocasuarina campestris</i> thicket	81 71	53 47
			152	
Calm Estate Name : 21543		PI Number: 21543		
Lat: -34.40808	Long: 117.2205	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	12	100
			12	
Calm Estate Name : 21906		PI Number: 21906		
Lat: -28.69095	Long: 115.5219	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum	49	100
			49	
Calm Estate Name : 22176		PI Number: 22176		
Lat: -30.94342	Long: 117.3157	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05m Mp-01c/Ci-02d	e6,8,34Mi e8,36Mp.k1,3Ci	Medium woodland; York gum, salmon gum & gimlet Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	3 2	73 2
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	1	25
			4	
Calm Estate Name : 22247		PI Number: 22247		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
sl	n/a	Bare areas; salt lakes	20	100
			20	
Calm Estate Name : 22363		PI Number: 22363		
Lat: -30.76018	Long: 117.0902	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a Sm-01b	ecSc e6Mr m6Sc	Shrublands; mallee & casuarina thicket Shrublands; <i>Melaleuca uncinata</i> thicket with scattered York gum	41 14	74 26
			55	

Appendix 2 continued

Calm Estate Name : 22906
Lat: 0 Long: 0 District:

PI Number: 22906

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	40	96
			40	

Calm Estate Name : 22907
Lat: 0 Long: 0 District:

PI Number: 22907

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	1	100
			1	

Calm Estate Name : 22966
Lat: -33.49298 Long: 118.5586 District: Katanning

PI Number: 22966

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	39	100
			39	

Calm Estate Name : 23008
Lat: -30.92654 Long: 117.3176 District: Merredin

PI Number: 23008

HopkinCode	BeardsCode	Description	Area	%
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	29	44
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	36	56
			65	

Calm Estate Name : 23029
Lat: -30.44782 Long: 117.5568 District: Merredin

PI Number: 23029

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	163	100
			163	

Calm Estate Name : 23179
Lat: -30.73629 Long: 116.027 District: Moora

PI Number: 23179

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	8	100
			8	

Calm Estate Name : 23218
Lat: -33.53144 Long: 118.4763 District: Katanning

PI Number: 23218

HopkinCode	BeardsCode	Description	Area	%
Mr-02c/Ci-02a	e8,9Mr.k1Ci	Mosaic: Medium open woodland; salmon gum & morrel / Succulent steppe; saltbush	109	99
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	0	

Appendix 2 continued

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Calm Estate Name : 23313		PI Number: 23313		
Lat: -30.75025	Long: 116.6474	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
MI-05c	e6Mi	Medium woodland; York gum	12	10
SC-02a	m5Sc k3Ci	Succulent steppe; Melaleuca thyoides thicket over samphire	67	58
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	1	1
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	36	31
			116	
Calm Estate Name : 23366		PI Number: 23366		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Sc-08d	mSc	Shrublands; teatree thicket	909	97
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	24	2
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	10	1
			944	
Calm Estate Name : 23527		PI Number: 23527		
Lat: -33.71458	Long: 121.7954	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	219	6
SZ-03j	xSzC	Shrublands; scrub-heath	3545	94
			3765	
Calm Estate Name : 23600		PI Number: 23600		
Lat: -29.22956	Long: 114.9162	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
Sc-03b/Lp-01d	a23m3Sc/e44Lp	Mosaic: Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket / Sparse low woodland; illyarrie	1	
Sr-02d	a23Sr	Shrublands; Acacia rostellifera open scrub	54	99
			54	
Calm Estate Name : 23665		PI Number: 23665		
Lat: -30.76082	Long: 117.0437	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	115	100
			115	
Calm Estate Name : 23825		PI Number: 23825		
Lat: -33.80268	Long: 121.9791	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	346	86

Appendix 2 continued

Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	55	14
			-----	401
Calm Estate Name : 23850		PI Number: 23850		
Lat: 0 Long: 0	District: Albany			
HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	19	5
Lc-06a	e2Lc	Low forest; jarrah	347	95
fl	n/a	Bare areas; freshwater lakes	1	0
			-----	368
Calm Estate Name : 23923		PI Number: 23923		
Lat: -34.88523 Long: 117.8815	District: Albany			
HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	25	64
Li-12d	e2,65 c7Lc	Low woodland; jarrah, E. decipiens & Allocasuarina fraseriana	14	36
			-----	39
Calm Estate Name : 23949		PI Number: 23949		
Lat: -28.75473 Long: 115.5777	District: Geraldton			
HopkinCode	BeardsCode	Description	Area	%
Sc-04a/SM-02c	c3Sc/e6Mr.a19si	Mosaic: Shrublands; Allocasuarina campestris thicket / Shrublands; jam scrub with scattered York gum in the vales	72	92
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum	6	8
			-----	78
Calm Estate Name : 23991		PI Number: 23991		
Lat: -30.63178 Long: 118.4807	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	259	37
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	402	56
r	n/a	Bare areas; rock outcrops	48	6
			-----	709
Calm Estate Name : 24057		PI Number: 24057		
Lat: -34.15817 Long: 116.9112	District: Katanning			
HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	192	99
Mc-01c	e3,5Mi	Medium woodland; marri-wandoo	2	1
			-----	194
Calm Estate Name : 24060		PI Number: 24060		
Lat: -30.75439 Long: 117.1717	District: Merredin			
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	36	100

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36

Calm Estate Name : 24185 Lat: -28.66993 Long: 115.2606 District: Geraldton		PI Number: 24185	
HopkinCode	BeardsCode	Description	Area %
Sc-01d/SZ-03d	acSc/x3S2c	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats	30 100
			30
Calm Estate Name : 24511 Lat: -33.83597 Long: 121.815 District: Esperance		PI Number: 24511	
HopkinCode	BeardsCode	Description	Area %
SZ-03j Si-08a	xS2c easi	Shrublands; scrub-heath Shrublands; mallee & acacia scrub on coastal dunes	2 1 169 99
			171
Calm Estate Name : 24534 Lat: -30.48223 Long: 117.8913 District: Merredin		PI Number: 24534	
HopkinCode	BeardsCode	Description	Area %
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	293 100
			293
Calm Estate Name : 2457 Lat: -32.24525 Long: 115.9874 District: Mundaring		PI Number: 2457	
HopkinCode	BeardsCode	Description	Area %
Mi-01f	e3Mi	Medium woodland; marri	71 100
			71
Calm Estate Name : 24707 Lat: -33.82678 Long: 117.3408 District: Katanning		PI Number: 24707	
HopkinCode	BeardsCode	Description	Area %
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	11 100
			11
Calm Estate Name : 24770 Lat: -33.81659 Long: 118.3626 District: Katanning		PI Number: 24770	
HopkinCode	BeardsCode	Description	Area %
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	102 100
			102
Calm Estate Name : 24827 Lat: -33.50747 Long: 118.1464 District: Katanning		PI Number: 24827	

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	47	94
Si-11d/Mi-05f	e15,27Si/e6,8Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; York gum & salmon gum	3	6
			51	
Calm Estate Name : 24953 Lat: -33.81054 Long: 121.7802 District: Esperance		PI Number: 24953		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	8	20
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	33	80
			41	
Calm Estate Name : 25212 Lat: -33.74266 Long: 118.4679 District: Katanning		PI Number: 25212		
HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	42	100
			42	
Calm Estate Name : 25495 Lat: -29.63254 Long: 115.2316 District: Moora		PI Number: 25495		
HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SZc	Shrublands; scrub-heath on lateritic sandplain	23	15
SZ-03f/Li-07f	x6SZc/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	134	85
			157	
Calm Estate Name : 25591 Lat: -30.97748 Long: 115.7759 District: Moora		PI Number: 25591		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	3	100
			3	
Calm Estate Name : 25696 Lat: -33.62232 Long: 118.291 District: Katanning		PI Number: 25696		
HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	3	39
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	4	61
			7	
Calm Estate Name : 25697 Lat: -33.62219 Long: 118.3148 District: Katanning		PI Number: 25697		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	3	21
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	4	22
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	9	57

				16
Calm Estate Name : 25705		PI Number: 25705		
Lat: -34.69472	Long: 118.0136	District: Albany		
HopkinCode	BeardsCode	Description	Area	%
Lc-06a	e2Lc	Low forest; jarrah	266	100

				266
Calm Estate Name : 25708		PI Number: 25708		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	165	68
Sc-08d	mSc	Shrublands; teatree thicket	74	30
Sc-09h	xSc	Shrublands; thicket other spp	2	1

				241
Calm Estate Name : 25801		PI Number: 25801		
Lat: -31.1649	Long: 119.3111	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	185	25
Mi-06r	e8,9,34,39Mi	Medium woodland; salmon gum, morrel, gimlet & E. sheathiana	346	45
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	60	8
sl	n/a	Bare areas; salt lakes	163	22

				754
Calm Estate Name : 25872		PI Number: 25872		
Lat: -31.55846	Long: 118.0695	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
CM-01g	e6Mi m5Sp k3Ci	Succulent steppe; yorkgum woodland, sparse Melaleuca thyoides scrub & samphire	351	84
Cm-01c	eMr k1Ci	Succulent steppe; saltbush & scattered eucalypts	2	1
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	64	15

				417
Calm Estate Name : 25984		PI Number: 25984		
Lat: -30.84113	Long: 117.0119	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	47	100

				47
Calm Estate Name : 26001		PI Number: 26001		
Lat: -29.81082	Long: 115.2696	District: Moora		

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HopkinCode	BeardsCode	Description	Area	%
SZ-03f/Li-07f	x6SzC/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	79	100
			79	
Calm Estate Name : 26005 Lat: -33.08551 Long: 117.7766 District: Katanning		PI Number: 26005		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum,wandoo & salmon gum	82	100
			82	
Calm Estate Name : 26125 Lat: -30.07111 Long: 115.2506 District: Moora		PI Number: 26125		
HopkinCode	BeardsCode	Description	Area	%
Mi-01j/Zc-02a	e3,5,45Mi/dZc	Mosaic: Medium woodland; marri,wandoo, powderbark / Shrublands; dryandra heath	42	63
SZ-03c Zc-02a/SZ-04a	x4SzC dZc/hSzC	Shrublands; scrub-heath on lateritic sandplain Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	4 20	6 30
			67	
Calm Estate Name : 26158 Lat: -33.82708 Long: 117.128 District: Katanning		PI Number: 26158		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	5	100
			5	
Calm Estate Name : 26363 Lat: 0 Long: 0 District:		PI Number: 26363		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c Mi-04a	e3,5Mi e5,45Mi	Medium woodland; marri-wandoo Medium woodland; wandoo-powderbark	19 54	26 74
			73	
Calm Estate Name : 26403 Lat: -30.98008 Long: 118.5616 District: Merredin		PI Number: 26403		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	114	100
			114	
Calm Estate Name : 26569 Lat: -33.81734 Long: 118.4632 District: Katanning		PI Number: 26569		
HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	109	83
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus	22	17

Appendix 2 continued

eremophila & black marlock / Medium woodland;
salmon gum & morrel

130

Calm Estate Name : 26575
Lat: -30.1507 Long: 116.0845 District: Moora

PI Number: 26575

HopkinCode	BeardsCode	Description	Area	%
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	15	6
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	209	93
			225	

Calm Estate Name : 26661
Lat: 0 Long: 0 District:

PI Number: 26661

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	349	100
			349	

Calm Estate Name : 26662
Lat: -33.81757 Long: 120.1753 District: Albany

PI Number: 26662

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	105	100
			105	

Calm Estate Name : 26787
Lat: 0 Long: 0 District:

PI Number: 26787

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	63	61
Sm-03b	e6c5Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered casuarina & York gum	40	39
			103	

Calm Estate Name : 26792
Lat: -33.98245 Long: 118.6415 District: Albany

PI Number: 26792

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	864	83
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	172	17
			1037	

Calm Estate Name : 26809
Lat: -31.52401 Long: 117.7235 District: Merredin

PI Number: 26809

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	111	100
			111	

Appendix 2 continued

Calm Estate Name : 26885
 Lat: -33.81429 Long: 121.4469 District: Esperance PI Number: 26885

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xS2c	Shrublands; scrub-heath	3070	63
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	1622	33
sl	n/a	Bare areas; salt lakes	134	3
			4826	

Calm Estate Name : 26897
 Lat: 0 Long: 0 District: PI Number: 26897

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	17	100
			17	

Calm Estate Name : 26916
 Lat: 0 Long: 0 District: PI Number: 26916

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	19	100
			19	

Calm Estate Name : 27087
 Lat: -33.848 Long: 122.7361 District: Esperance PI Number: 27087

HopkinCode	BeardsCode	Description	Area	%
			38	100
			38	

Calm Estate Name : 27146
 Lat: -31.11297 Long: 118.7462 District: Merredin PI Number: 27146

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	29	25
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	89	75
			118	

Calm Estate Name : 27177
 Lat: -33.64454 Long: 120.3285 District: Albany PI Number: 27177

HopkinCode	BeardsCode	Description	Area	%
Si-14a	e28Si	Shrublands; mallee scrub Eucalyptus nutans	27	100
			27	

Calm Estate Name : 27223
 Lat: 0 Long: 0 District: PI Number: 27223

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-01k	e5Mi	Medium woodland; wandoo	7	100
			7	
Calm Estate Name : 27481		PI Number: 27481		
Lat: -33.62435 Long: 117.7592 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	43	41
Mi-09e	e7mMi	Medium woodland; yate & teatree	64	60
			108	
Calm Estate Name : 27485		PI Number: 27485		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	98	20
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	398	80
			496	
Calm Estate Name : 27486		PI Number: 27486		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	752	100
			752	
Calm Estate Name : 27584		PI Number: 27584		
Lat: -31.41742 Long: 118.409 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	34	46
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	40	53
			74	
Calm Estate Name : 27865		PI Number: 27865		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	6	99
			6	
Calm Estate Name : 27888		PI Number: 27888		
Lat: -33.80665 Long: 121.3083 District: Esperance				
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	57	1
SZ-03j	xSzC	Shrublands; scrub-heath	3816	94
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	134	3
sl	n/a	Bare areas; salt lakes	65	2
			4073	

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Calm Estate Name : 27913 Lat: -30.48595 Long: 118.1112 District: Merredin		PI Number: 27913		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	34	100
			34	
Calm Estate Name : 27993 Lat: -30.77345 Long: 115.531 District: Moora		PI Number: 27993		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c Zc-02a/SZ-04a	e3,5Mi dZc/hSZc	Medium woodland; marri-wandoo Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	1 22	3 97
			23	
Calm Estate Name : 28047 Lat: 0 Long: 0 District:		PI Number: 28047		
HopkinCode	BeardsCode	Description	Area	%
Mi-05g S2-03j Si-13a r	e8,9Mi xSZc e27Si n/a	Medium woodland; salmon gum & morrel Shrublands; scrub-heath Shrublands; mallee scrub, black marlock Bare areas; rock outcrops	419 1 171 39	66 0 27 6
			630	
Calm Estate Name : 28167 Lat: -32.2561 Long: 115.8881 District: Mundaring		PI Number: 28167		
HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	33	100
			33	
Calm Estate Name : 28173 Lat: -33.28587 Long: 118.6124 District: Katanning		PI Number: 28173		
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	316	100
			316	
Calm Estate Name : 28319 Lat: 0 Long: 0 District:		PI Number: 28319		
HopkinCode	BeardsCode	Description	Area	%
SC-01b	e6,66Mp mSc k3ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	41	100
			41	
Calm Estate Name : 28323 Lat: -31.78291 Long: 119.1223 District: Merredin		PI Number: 28323		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	148	13
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	841	71
r	n/a	Bare areas; rock outcrops	194	17
				1183
Calm Estate Name : 28403		PI Number: 28403		
Lat: -31.37411 Long: 118.2267 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	42	57
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	31	41
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	2	2
				74
Calm Estate Name : 28547		PI Number: 28547		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
SC-02b	mSc k3Ci	Succulent steppe; teatree thicket over samphire m5	258	49
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	252	48
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	13	3
				523
Calm Estate Name : 28549		PI Number: 28549		
Lat: -33.81402 Long: 118.387 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	63	100
				63
Calm Estate Name : 28562		PI Number: 28562		
Lat: -31.38996 Long: 118.7521 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	162	100
				162
Calm Estate Name : 28669		PI Number: 28669		
Lat: -30.04171 Long: 116.1856 District: Moora				
HopkinCode	BeardsCode	Description	Area	%
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	119	75
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	40	26
				158

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Calm Estate Name : 28710		PI Number: 28710		
Lat: -30.66473	Long: 116.0121	District: Moora		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	1	100
			1	
Calm Estate Name : 28715		PI Number: 28715		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	154	36
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	43	10
r	n/a	Bare areas; rock outcrops	231	55
			428	
Calm Estate Name : 28755		PI Number: 28755		
Lat: -29.57735	Long: 116.6169	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	12	100
			12	
Calm Estate Name : 28863		PI Number: 28863		
Lat: -30.72154	Long: 116.5137	District: Moora		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	1	100
			1	
Calm Estate Name : 28940		PI Number: 28940		
Lat: -31.59517	Long: 118.7718	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-01k	e5Mi	Medium woodland, wandoo	64	1
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	1	0
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	2412	56
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	1885	43
			4361	
Calm Estate Name : 29025		PI Number: 29025		
Lat: -33.23126	Long: 118.7307	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	50	24
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	159	76
			209	

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Calm Estate Name : 29027

Lat: 0 Long: 0 District:

PI Number: 29027

HopkinCode	BeardsCode	Description	Area	%
Si-13a r	e27si n/a	Shrublands; mallee scrub, black marlock Bare areas; rock outcrops	1098 164	87 13
				1263

Calm Estate Name : 29246

Lat: 0 Long: 0 District:

PI Number: 29246

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	15	100
				15

Calm Estate Name : 29451

Lat: 0 Long: 0 District:

PI Number: 29451

HopkinCode	BeardsCode	Description	Area	%
SZ-03j r	xSzC n/a	Shrublands; scrub-heath Bare areas; rock outcrops	159 55	74 26
				215

Calm Estate Name : 29574

Lat: -32.77921 Long: 119.2443 District: Katanning

PI Number: 29574

HopkinCode	BeardsCode	Description	Area	%
SZ-03j Si-13a r	xSzC e27si n/a	Shrublands; scrub-heath Shrublands; mallee scrub, black marlock Bare areas; rock outcrops	191 573 100	22 66 12
				864

Calm Estate Name : 29576

Lat: -32.79028 Long: 119.3049 District: Katanning

PI Number: 29576

HopkinCode	BeardsCode	Description	Area	%
Si-13a r	e27si n/a	Shrublands; mallee scrub, black marlock Bare areas; rock outcrops	350 161	70 32
				511

Calm Estate Name : 29580

Lat: 0 Long: 0 District:

PI Number: 29580

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27si	Shrublands; mallee scrub, black marlock	63	100
				63

Calm Estate Name : 29589

Lat: 0 Long: 0 District:

PI Number: 29589

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	4	9

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Mi-05c	e6Mi	Medium woodland; York gum	38	91

			42	
Calm Estate Name : 29719		PI Number: 29719		
Lat: 0	Long: 0	District: Moora		
HopkinCode	BeardsCode	Description	Area	%
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	120	100

			120	
Calm Estate Name : 29807		PI Number: 29807		
Lat: -29.27748	Long: 116.421	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	13	2
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	235	51
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	4	1
SL-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	3	1
sl	n/a	Bare areas; salt lakes	209	45

			464	
Calm Estate Name : 29815		PI Number: 29815		
Lat: -31.97941	Long: 116.0007	District: Mundaring		
HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	13	100

			13	
Calm Estate Name : 29906		PI Number: 29906		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	6	83
Mi-05c	e6Mi	Medium woodland; York gum	1	17

			8	
Calm Estate Name : 2\10		PI Number: 2\10		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	4687	24
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	3340	17
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	276	1
Sc-03a	a9,19m6Sc	Shrublands; bowgada, jam and Melaleuca uncinata thicket	2887	14
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	113	0
Si-02q	a9,19Si	Shrublands; bowgada & jam scrub	1478	7
SL-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	565	3
SL-03e	ceLr a9Si	Shrublands; bowgada scrub with scattered eucalyptus sp.& callitris sp.or casuarina	6013	30
sl	n/a	Bare areas; salt lakes	874	4

			20234	

Appendix 2 continued

Calm Estate Name : 30270		PI Number: 30270		
Lat: -30.62011 Long: 117.3628 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	6	100
			6	
Calm Estate Name : 30299		PI Number: 30299		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	36	21
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	135	79
			171	
Calm Estate Name : 30324i		PI Number: 30324i		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	34	4
SC-01a	e36,66Mp mSc k3Ci	Succulent steppe; yorrell & Kondinin blackbutt sparse woodland, teatree scrub & samphire	62	7
sl	n/a	Bare areas; salt lakes	805	89
			901	
Calm Estate Name : 30394		PI Number: 30394		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	76	100
			76	
Calm Estate Name : 30429		PI Number: 30429		
Lat: -31.64051 Long: 118.4381 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	123	100
			123	
Calm Estate Name : 30430		PI Number: 30430		
Lat: -31.19158 Long: 118.7833 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	121	100
			121	
Calm Estate Name : 30431		PI Number: 30431		
Lat: 0 Long: 0 District:				

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HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	404	67
Sm-01a	e5,7Mr mSc	Shrublands; teatree thicket with scattered wandoo & yate	204	34
			608	
Calm Estate Name : 30516 Lat: -31.63061 Long: 118.5012 District: Merredin				PI Number: 30516
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	45	43
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	60	57
			105	
Calm Estate Name : 31043 Lat: -33.17954 Long: 118.2633 District: Katanning				PI Number: 31043
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	6	100
			6	
Calm Estate Name : 31091 Lat: 0 Long: 0 District:				PI Number: 31091
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	40	100
			40	
Calm Estate Name : 31094 Lat: -33.15729 Long: 119.9606 District: Katanning				PI Number: 31094
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	128	78
r	n/a	Bare areas; rock outcrops	36	22
			164	
Calm Estate Name : 31195 Lat: -30.73165 Long: 118.2832 District: Merredin				PI Number: 31195
HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	24	100
			24	
Calm Estate Name : 31313 Lat: -33.47383 Long: 121.7367 District: Esperance				PI Number: 31313
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

SZ-01b Si-13a	e26SZc e27Si	Shrublands; tallerack mallee-heath Shrublands; mallee scrub, black marlock	11 8	58 42
				19

Calm Estate Name : 31424
Lat: -33.49321 Long: 119.7165 District: Albany

PI Number: 31424

HopkinCode	BeardsCode	Description	Area	%
Mi-09a	e7Mi	Medium woodland; yate	132	5
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	2673	90
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	147	5
sl	n/a	Bare areas; salt lakes	14	0
				2966

Calm Estate Name : 31425
Lat: -33.65789 Long: 119.7861 District: Albany

PI Number: 31425

HopkinCode	BeardsCode	Description	Area	%
Si-13a/SZ-01b	e27Si/e26SZc	Mosaic: Shrublands; mallee scrub, black marlock / Shrublands; tallerack mallee-heath	254	100
				254

Calm Estate Name : 3156
Lat: -31.39955 Long: 116.3482 District: Mundaring

PI Number: 3156

HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	29	74
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	10	26
				39

Calm Estate Name : 31732
Lat: 0 Long: 0 District:

PI Number: 31732

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	12	88
Mi-05c	e6Mi	Medium woodland; York gum	2	12
				13

Calm Estate Name : 31733
Lat: 0 Long: 0 District:

PI Number: 31733

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	100	

Calm Estate Name : 31745
Lat: -33.49013 Long: 121.0956 District: Esperance

PI Number: 31745

HopkinCode	BeardsCode	Description	Area	%
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock	13	15
r	n/a	Bare areas; rock outcrops	4	5

Appendix 2 continued

87

Calm Estate Name : 31906		PI Number: 31906		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Sc-08d	mSc	Shrublands; teatree thicket	5	100
			5	
Calm Estate Name : 32131		PI Number: 32131		
Lat: -33.49226	Long: 122.7979	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	809	76
			248	23
			1057	
Calm Estate Name : 32144		PI Number: 32144		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Gc-02a/Hi-06a	xGc/t1Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex Triodia pungens	1	100
			1	
Calm Estate Name : 32259		PI Number: 32259		
Lat: -33.82186	Long: 121.8851	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j st	xSzC n/a	Shrublands; scrub-heath Bare areas; salt lakes	6	76
			2	24
			7	
Calm Estate Name : 32352		PI Number: 32352		
Lat: -32.36871	Long: 115.9751	District: Mundaring		
HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	2	100
			2	
Calm Estate Name : 32419		PI Number: 32419		
Lat: -33.77568	Long: 121.5208	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j st	xSzC n/a	Shrublands; scrub-heath Bare areas; salt lakes	164	21
			631	79
			795	
Calm Estate Name : 32601		PI Number: 32601		
Lat: -33.84008	Long: 121.1764	District: Esperance		

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	17	100
			17	
Calm Estate Name : 32663 Lat: -33.33726 Long: 118.2624 District: Katanning		PI Number: 32663		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	0	
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	44	13
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	257	79
Si-11d/Mi-05f	e15,27Si/e6,8Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; York gum & salmon gum	0	
sl	n/a	Bare areas; salt lakes	24	7
			326	
Calm Estate Name : 32864 Lat: -30.49156 Long: 118.6335 District: Merredin		PI Number: 32864		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	771	51
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	661	44
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	44	3
r	n/a	Bare areas; rock outcrops	41	3
			1517	
Calm Estate Name : 32865 Lat: -30.50294 Long: 118.5655 District: Merredin		PI Number: 32865		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	5	1
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	472	80
r	n/a	Bare areas; rock outcrops	110	19
			587	
Calm Estate Name : 32982 Lat: -33.08256 Long: 115.913 District: Harvey/Collie		PI Number: 32982		
HopkinCode	BeardsCode	Description	Area	%
Mi-08e	e2,3,18,agMi	Medium woodland-fringing; jarrah, marri, Eucalyptus rudis & Agonis flexuosa	100	
Calm Estate Name : 32993 Lat: -30.73272 Long: 118.5077 District: Merredin		PI Number: 32993		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	43	100
			43	

Appendix 2 continued

Calm Estate Name : 33113 Lat: -32.92189 Long: 121.8562 District: Esperance		PI Number: 33113		
HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila /Medium woodland; salmon gum & red mallee	8855	100
			8855	
Calm Estate Name : 33287 Lat: -30.32258 Long: 115.1267 District: Moora		PI Number: 33287		
HopkinCode	BeardsCode	Description	Area	%
SZ-03i	x9SZc	Shrublands; scrub-heath	304	100
			304	
Calm Estate Name : 33501 Lat: -32.81925 Long: 121.7982 District: Esperance		PI Number: 33501		
HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila /Medium woodland; salmon gum & red mallee	203	100
			203	
Calm Estate Name : 33581 Lat: 0 Long: 0 District:		PI Number: 33581		
HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	10	2
Mi-02a	e4Mi	Medium woodland; tuart	433	98
SZ-03j	xSZc	Shrublands; scrub-heath	1	0
			443	
Calm Estate Name : 33854 Lat: -30.50378 Long: 117.164 District: Merredin		PI Number: 33854		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	20	100
			20	
Calm Estate Name : 34197 Lat: -31.49588 Long: 118.888 District: Merredin		PI Number: 34197		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	215	34
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	419	66
			633	
Calm Estate Name : 34295 Lat: 0 Long: 0 District:		PI Number: 34295		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Si-13a	e27si	Shrublands; mallee scrub, black marlock	936	100
			936	
Calm Estate Name : 35163		PI Number: 35163		
Lat: -33.27432 Long: 116.9068 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	6	100
			6	
Calm Estate Name : 35283		PI Number: 35283		
Lat: 0 Long: 0 District: Dwellingup				
HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	4	4
Mi-01f	e3Mi	Medium woodland; marri	84	96
			87	
Calm Estate Name : 35593		PI Number: 35593		
Lat: -30.17187 Long: 115.143 District: Moora				
HopkinCode	BeardsCode	Description	Area	%
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	354	100
			354	
Calm Estate Name : 35594		PI Number: 35594		
Lat: -30.17338 Long: 115.1351 District: Moora				
HopkinCode	BeardsCode	Description	Area	%
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	55	100
			55	
Calm Estate Name : 35659		PI Number: 35659		
Lat: -33.24416 Long: 121.0889 District: Esperance				
HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	211	21
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock	790	79
			1001	
Calm Estate Name : 35858		PI Number: 35858		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	100	

Appendix 2 continued

Calm Estate Name : 35918		PI Number: 35918		
Lat: -19.69993	Long: 123.3427	District: West Kimberley		
HopkinCode	BeardsCode	Description	Area	%
HL-06a	oLr t1Hi	Hummock grasslands, open low tree steppe; desert	7264	42
Si-07a	mSi	walnut over soft spinifex between sandridges Shrublands; teatree scrub	10455	59
			17719	
Calm Estate Name : 36003		PI Number: 36003		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	1106	99
r	n/a	Bare areas; rock outcrops	10	1
			1116	
Calm Estate Name : 36110		PI Number: 36110		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	31	100
			31	
Calm Estate Name : 36183		PI Number: 36183		
Lat: -33.52086	Long: 121.4585	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	357	100
			357	
Calm Estate Name : 36827		PI Number: 36827		
Lat: -34.17948	Long: 116.9984	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	20	100
			20	
Calm Estate Name : 36918		PI Number: 36918		
Lat: -30.84983	Long: 119.3678	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	6404	44
Mi-06r	e8,9,34,39Mi	Medium woodland; salmon gum, morrel, gimlet & E. sheathiana	1033	6
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	6164	42
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	736	5
r	n/a	Bare areas; rock outcrops	118	0
sl	n/a	Bare areas; salt lakes	224	1
			14679	
Calm Estate Name : 36967		PI Number: 36967		

Appendix 2 continued

Lat: -33.7509 Long: 118.5992 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	35	24
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	105	72
sl	n/a	Bare areas; salt lakes	6	4
			146	

Calm Estate Name : 37089

Lat: 0 Long: 0 District:

PI Number: 37089

HopkinCode	BeardsCode	Description	Area	%
Gc-02a/Hi-06a	xGc/t1Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex Triodia pungens	100	

Calm Estate Name : 37090

Lat: -32.39837 Long: 115.8213 District: Mundaring

PI Number: 37090

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	148	31
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	162	33
Mi-02a	e4Mi	Medium woodland; tuart	180	37
			490	

Calm Estate Name : 37094

Lat: 0 Long: 0 District: Moora

PI Number: 37094

HopkinCode	BeardsCode	Description	Area	%
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	44	100
			44	

Calm Estate Name : 37289

Lat: 0 Long: 0 District:

PI Number: 37289

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	305	40
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	461	60
			766	

Calm Estate Name : 37316

Lat: -28.8536 Long: 115.257 District: Geraldton

PI Number: 37316

HopkinCode	BeardsCode	Description	Area	%
Sz-03c	x4SzC	Shrublands; scrub-heath on lateritic sandplain	67	100

Appendix 2 continued

Calm Estate Name : 37500		PI Number: 37500		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Hs-03f	anSrt2Hi	Hummock grasslands, shrub-steppe; acacia & grevillea over Triodia basedowii	5	100
			5	
Calm Estate Name : 37511		PI Number: 37511		
Lat: -15.77821	Long: 128.7334	District: East Kimberley		
HopkinCode	BeardsCode	Description	Area	%
KGM-02e	e24,48,49,Mi s2t11Gc	Grasslands, high grass savanna woodland; bloodwood, stringybark & woollybutt over upland tall grass & curly spinifex	100	
Calm Estate Name : 37525		PI Number: 37525		
Lat: -17.87126	Long: 122.3599	District: West Kimberley		
HopkinCode	BeardsCode	Description	Area	%
P-01b	e50,51Mi a29Sc cpGi	Shrublands, pindan; Acacia tumida shrubland with grey box & cabbage gum medium woodland over ribbon grass & curly spinifex	19	100
			19	
Calm Estate Name : 38287		PI Number: 38287		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Gc-02a/Hi-06a	xGc/t1Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex Triodia pungens	19	65
Hi-08a	t3Hi	Hummock grasslands, grass steppe; hard spinifex Triodia wiseana	10	34
			28	
Calm Estate Name : 38296		PI Number: 38296		
Lat: -31.60862	Long: 118.5089	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	4	3
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	144	98
			148	
Calm Estate Name : 38334		PI Number: 38334		
Lat: -33.37375	Long: 122.8206	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	3	1
			404	99

Appendix 2 continued

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Calm Estate Name : 38379		PI Number: 38379		
Lat: -33.05553	Long: 118.1859	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	187	100
			187	
Calm Estate Name : 38395		PI Number: 38395		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	71	100
			71	
Calm Estate Name : 38401		PI Number: 38401		
Lat: -30.16562	Long: 116.5211	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	90	79
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	24	21
			114	
Calm Estate Name : 38450		PI Number: 38450		
Lat: -32.89855	Long: 119.6284	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xS2c	Shrublands; scrub-heath	314	31
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	293	29
r	n/a	Bare areas; rock outcrops	411	39
			1018	
Calm Estate Name : 38522		PI Number: 38522		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	52	74
SZ-03j	xS2c	Shrublands; scrub-heath	19	26
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	71	
Calm Estate Name : 38567		PI Number: 38567		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	64	100
			64	

Appendix 2 continued

Calm Estate Name : 38574		PI Number: 38574		
Lat: -30.47274	Long: 117.9771	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	91	100
			91	
Calm Estate Name : 38578		PI Number: 38578		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	6	7
SZ-03j/Sc-04b	xSzC/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	27	34
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	49	60
			82	
Calm Estate Name : 38731		PI Number: 38731		
Lat: -33.48859	Long: 116.8841	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	10	15
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	61	86
			71	
Calm Estate Name : 38800		PI Number: 38800		
Lat: -30.66062	Long: 118.6274	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	65	100
			65	
Calm Estate Name : 39038		PI Number: 39038		
Lat: -30.52985	Long: 117.3418	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	190	100
			190	
Calm Estate Name : 39138		PI Number: 39138		
Lat: -33.84603	Long: 121.8839	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	1	100
			1	
Calm Estate Name : 39322		PI Number: 39322		
Lat: -30.84665	Long: 116.2675	District: Moora		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	76	100
			76	
Calm Estate Name : 39399		PI Number: 39399		
Lat: -33.84141 Long: 117.3627 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	102	75
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	34	25
			136	
Calm Estate Name : 39411		PI Number: 39411		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	26	100
			26	
Calm Estate Name : 39412		PI Number: 39412		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	34	100
			34	
Calm Estate Name : 39413		PI Number: 39413		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	15	100
			15	
Calm Estate Name : 39414		PI Number: 39414		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	14	14
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	88	86
			102	
Calm Estate Name : 39563		PI Number: 39563		
Lat: -30.08389 Long: 116.7422 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginea thicket	29	100
			29	
Calm Estate Name : 39571		PI Number: 39571		
Lat: -30.77406 Long: 115.6046 District: Moora				
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-01f	e3Mi	Medium woodland; marri	20	50
Mr-01b/Zc-02a	e3Mr.dZc	Mosaic: Medium open woodland; marri / Shrublands; dryandra heath	14	37
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	5	14
				40

Calm Estate Name : 39703
Lat: -30.46553 Long: 118.0511 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	8	100
				8

Calm Estate Name : 39744
Lat: -29.73006 Long: 115.2157 District: Moora

HopkinCode	BeardsCode	Description	Area	%
SZ-03f/Li-07f	x6SZc/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	2701	100
				2701

Calm Estate Name : 39971
Lat: -34.09642 Long: 118.4746 District: Albany

HopkinCode	BeardsCode	Description	Area	%
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	20	64
Si-13a/SZ-01b	e27Si/e26SZc	Mosaic: Shrublands; mallee scrub, black marlock / Shrublands; tallerack mallee-heath	11	36
				31

Calm Estate Name : 40035
Lat: -33.42155 Long: 117.8014 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	5	52
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	5	48
				10

Calm Estate Name : 40161
Lat: -29.24801 Long: 116.3633 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	57	5
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	1046	89
Sl-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	78	7
				1181

Calm Estate Name : 40257
Lat: -30.94833 Long: 116.618 District: Merredin

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

SC-02a	m5Sc k3Ci	Succulent steppe; Melaleuca thyoides thicket over samphire	213	89
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	26	11
			-----	239
Calm Estate Name : 40460 Lat: -31.45321 Long: 119.0109 District: Merredin		PI Number: 40460		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	208	28
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	521	69
r	n/a	Bare areas; rock outcrops	28	4
			-----	757
Calm Estate Name : 40564 Lat: -33.19966 Long: 115.699 District: Harvey/Collie		PI Number: 40564		
HopkinCode	BeardsCode	Description	Area	%
Sc-08d	mSc	Shrublands; teatree thicket	3	59
Ti-01a	e4Ti	Tall woodland; tuart	2	41
			-----	6
Calm Estate Name : 40642 Lat: -31.89948 Long: 116.8597 District: Mundaring		PI Number: 40642		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	27	100
			-----	27
Calm Estate Name : 40916 Lat: -30.72312 Long: 115.4201 District: Moora		PI Number: 40916		
HopkinCode	BeardsCode	Description	Area	%
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	1013	100
			-----	1013
Calm Estate Name : 41011 Lat: -30.50096 Long: 115.081 District: Moora		PI Number: 41011		
HopkinCode	BeardsCode	Description	Area	%
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	1	100
			-----	1
Calm Estate Name : 41042 Lat: -30.83867 Long: 116.3882 District: Moora		PI Number: 41042		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	98	101
			-----	98

Appendix 2 continued

Calm Estate Name : 41066

PI Number: 41066

Lat: -17.97849 Long: 122.3412 District: West Kimberley

HopkinCode	BeardsCode	Description	Area	%
P-01b	e50,51Mi a29Sc cpGi	Shrublands, pindan; Acacia tumida shrubland with grey box & cabbage gum medium woodland over ribbon grass & curly spinifex	3	100

3

Calm Estate Name : 41160

PI Number: 41160

Lat: -32.84552 Long: 115.6898 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	8	100

8

Calm Estate Name : 41180

PI Number: 41180

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mr-03b Sc-09h	e6,18Mr xSc	Medium woodland; York gum & river gum Shrublands; thicket other spp	50	100

50

Calm Estate Name : 41184

PI Number: 41184

Lat: -32.61801 Long: 115.8523 District: Dwellingup

HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	16	100

16

Calm Estate Name : 41568

PI Number: 41568

Lat: -33.65019 Long: 115.3783 District: Busselton

HopkinCode	BeardsCode	Description	Area	%
Li-08a st	agli n/a	Low woodland; Agonis flexuosa Bare areas; salt lakes	9 11	44 56

20

Calm Estate Name : 41597

PI Number: 41597

Lat: -33.66591 Long: 115.3026 District: Busselton

HopkinCode	BeardsCode	Description	Area	%
Sc-02g	a31sc	Shrublands; Acacia decipiens	7	100

7

Calm Estate Name : 41696

PI Number: 41696

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Hl-02a	e16Lr t3Hi	Hummock grasslands, open low tree steppe; snappy gum over Triodia wiseana	1	0

Appendix 2 continued

Hl-02a	e16Lr t3Hi	Hummock grasslands, open low tree-steppe; snappy gum over T. wiseana	103	1
Hs-08c	a1,2Sr t1,2Hi	Hummock grasslands, shrub-steppe; mulga & kanji over Triodia pungens & T. basedowii	1575	28
Li-02a	a1Li	Low woodland; mulga	2937	53
Lp-01a	a1Lp	Sparse low woodland; mulga, discontinuous in scattered groups	938	17
				5553

Calm Estate Name : 41724 PI Number: 41724
 Lat: -33.35941 Long: 115.6756 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	2	100
			2	

Calm Estate Name : 41805 PI Number: 41805
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
LM-01a/Mp-01a	e2,3Mr.bLi/e2,3,Mp	Mosaic: Medium open woodland; jarrah & marri, with low woodland; banksia / Medium sparse woodland; jarrah & marri	6744	72
Li-09a	bli	Low woodland; banksia	2547	27
			9291	

Calm Estate Name : 41826 PI Number: 41826
 Lat: -33.60872 Long: 117.965 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	43	100
			43	

Calm Estate Name : 41830 PI Number: 41830
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	4669	98
Sc-08d	mSc	Shrublands; teatree thicket	61	0
fl	n/a	Bare areas; freshwater lakes	49	1
			4779	

Calm Estate Name : 41934 PI Number: 41934
 Lat: -33.30788 Long: 123.6857 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	922	14
Sc-09d	dSc	Shrublands; Mt Ragged heath	662	10
Si-15c	e31Si	Shrublands; mallee scrub, white mallee E. cooperana	5153	76
			6738	

Calm Estate Name : 41938 PI Number: 41938
 Lat: -31.61759 Long: 116.1569 District: Mundaring

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	2666	84
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	576	17
			3243	
Calm Estate Name : 41986 Lat: -30.59653 Long: 115.4465 District: Moora			PI Number: 41986	
HopkinCode	BeardsCode	Description	Area	%
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	180	7
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	2221	93
			2401	
Calm Estate Name : 42030 Lat: -30.03081 Long: 115.0228 District: Moora			PI Number: 42030	
HopkinCode	BeardsCode	Description	Area	%
Sl-01a	c6Lrm5Sc	Shrublands; Melaleuca thyoides thicket with scattered casuarina	22	29
Sl-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	55	71
			78	
Calm Estate Name : 42031 Lat: -30.07609 Long: 115.1326 District: Moora			PI Number: 42031	
HopkinCode	BeardsCode	Description	Area	%
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	519	100
			519	
Calm Estate Name : 42117 Lat: -32.92385 Long: 118.4089 District: Katanning			PI Number: 42117	
HopkinCode	BeardsCode	Description	Area	%
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	37	8
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	439	92
			476	
Calm Estate Name : 42126 Lat: 0 Long: 0 District:			PI Number: 42126	
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	6	100
			6	
Calm Estate Name : 42209 Lat: -30.15762 Long: 115.9557 District: Moora			PI Number: 42209	
HopkinCode	BeardsCode	Description	Area	%
SZ-03h	x8SZc	Shrublands; scrub-heath on sandplain	39	100

Appendix 2 continued

39

Calm Estate Name : 42255 PI Number: 42255
 Lat: 0 Long: 0 District:

Calm Estate Name : 42377 PI Number: 42377
 Lat: -34.23725 Long: 115.3024 District: Busselton

HopkinCode	BeardsCode	Description	Area	%
Li-01a	e2bLi	Low woodland; jarrah-banksia	29	57
Si-05a	agSi	Shrublands; peppermint scrub, Agonis flexuosa	22	43
			51	

Calm Estate Name : 42469 PI Number: 42469
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	25	50
SZ-03j	xSzC	Shrublands; scrub-heath	25	50
			51	

Calm Estate Name : 42470 PI Number: 42470
 Lat: 0 Long: 0 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	475	98
Sc-08d	mSc	Shrublands; teatree thicket	8	2
			483	

Calm Estate Name : 42481 PI Number: 42481
 Lat: -30.01093 Long: 115.2385 District: Moora

HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SzC	Shrublands; scrub-heath on lateritic sandplain	31	100
			31	

Calm Estate Name : 42657 PI Number: 42657
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	100	

Calm Estate Name : 42743 PI Number: 42743
 Lat: 0 Long: 0 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
LM-01a/Mp-01a	e2,3Mr.bLi/e2,3,Mp	Mosaic: Medium open woodland; jarrah & marri, with low woodland; banksia / Medium sparse woodland; jarrah & marri	165	100
			165	

Appendix 2 continued

Calm Estate Name : 42815

Lat: 0 Long: 0 District: Geraldton

PI Number: 42815

HopkinCode	BeardsCode	Description	Area	%
Mi-05c Sc-01d/SZ-03d	e6Mi acSc/x3SzC	Medium woodland; York gum Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats	179 59	24 8
Sm-02c Sm-04a	e6Mr a19Si e6Mr easi	Shrublands; jam scrub with scattered York gum Shrublands; mallee & acacia scrub with scattered York gum	24 473	3 64
				735

Calm Estate Name : 42935

Lat: 0 Long: 0 District: Mundaring

PI Number: 42935

HopkinCode	BeardsCode	Description	Area	%
Lc-03a Mi-01c	mLc e3,5Mi	Low forest; teatree Medium woodland; marri-wandoo	1 23	77 23
				1

Calm Estate Name : 42943

Lat: 0 Long: 0 District: Esperance

PI Number: 42943

HopkinCode	BeardsCode	Description	Area	%
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	3203	28
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila /Medium woodland; salmon gum & red mallee	1042	9
sl	n/a	Bare areas; salt lakes	7381	63
				11626

Calm Estate Name : 43060

Lat: 0 Long: 0 District: Esperance

PI Number: 43060

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	304	100
				304

Calm Estate Name : 43077

Lat: 0 Long: 0 District:

PI Number: 43077

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	111	100
				111

Calm Estate Name : 43221

Lat: 0 Long: 0 District: Esperance

PI Number: 43221

HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06d	e15Si/e11,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila / Medium woodland; merrit & coral gum	132	100
				132

Appendix 2 continued

Calm Estate Name : 43285		PI Number: 43285		
Lat: 0	Long: 0	District: Moora		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	9	100
			9	
Calm Estate Name : 43286		PI Number: 43286		
Lat: 0	Long: 0	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	64	100
			64	
Calm Estate Name : 5225		PI Number: 5225		
Lat: -35.09337	Long: 117.9375	District: Albany		
HopkinCode	BeardsCode	Description	Area	%
SZ-02c	aSZc	Shrublands; Acacia scrub-heath a	54	100
			54	
Calm Estate Name : 5339		PI Number: 5339		
Lat: -33.54351	Long: 117.5493	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	40	100
			40	
Calm Estate Name : 5796		PI Number: 5796		
Lat: -33.73431	Long: 117.2984	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	8	18
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	35	82
			43	
Calm Estate Name : 6058		PI Number: 6058		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	2	100
			2	
Calm Estate Name : 8937		PI Number: 8937		
Lat: -28.47797	Long: 114.6303	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
Sc-09f	mhSc	Shrublands; mixed thicket	24	72
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	10	28

Appendix 2 continued

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Calm Estate Name : 900		PI Number: 900		
Lat: 0	Long: 0	District: Geraldton		
HopkinCode	BeardsCode	Description	Area	%
SZ-03b	x3SzC	Shrublands; scrub-heath on sandplain	263	35
Sm-02d	e6Mr a19,23Si	Shrublands; jam and A. rostellifera or hakea scrub with scattered York gum	501	64
			764	
Calm Estate Name : 971		PI Number: 971		
Lat: -29.73088	Long: 115.1611	District: Moora		
HopkinCode	BeardsCode	Description	Area	%
SZ-03f/Li-07f	x6SzC/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	167	40
Sl-01a	c6Lrm5Sc	Shrublands; Melaleuca thyoides thicket with scattered casuarina	138	33
Sl-03c fl	e6Lr a9Si n/a	Shrublands; bowgada scrub with scattered York gum Bare areas; freshwater lakes	62	15
			49	12
			415	
Calm Estate Name : 9847		PI Number: 9847		
Lat: -33.32278	Long: 117.8617	District: Katanning		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	27	68
Mi-09e	e7nMi	Medium woodland; yate & teatree	13	32
			39	
Calm Estate Name : Alexander Morrison National Park		PI Number: 29800		
Lat: -30.08059	Long: 115.4906	District: Moora		
HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SzC	Shrublands; scrub-heath on lateritic sandplain	7172	84
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	1416	16
Zc-02a/SZ-04a	dZc/hSzC	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	0	0
			8588	
Calm Estate Name : Alexander Nature Reserve		PI Number: 27086		
Lat: -33.84511	Long: 122.7885	District: Esperance		
HopkinCode	BeardsCode	Description	Area	%
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	4	0
			803	100
			807	
Calm Estate Name : Alfred Cove Nature Reserve		PI Number: 35066		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	7	100

Calm Estate Name : Amery Nature Reserve
 Lat: -31.15361 Long: 117.0908 District: Merredin

PI Number: 38703

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	2	5
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	34	96
			35	

Calm Estate Name : Anderson Lake Nature Reserve
 Lat: -34.16655 Long: 117.962 District: Katanning

PI Number: 25194

HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	45	9
Mi-09a	e7Mi	Medium woodland; yate	71	15
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	267	55
sl	n/a	Bare areas; salt lakes	99	21
			483	

Calm Estate Name : Arpenteur Nature Reserve
 Lat: -34.88819 Long: 118.4111 District: Albany

PI Number: 36719

HopkinCode	BeardsCode	Description	Area	%
SZ-01d	e65SZc	Shrublands; Albany blackbutt mallee-heath	80	100
			80	

Calm Estate Name : Arthur River Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 26788

HopkinCode	BeardsCode	Description	Area	%
Ci-01a	xCi	Succulent steppe; heterogeneous spp	198	5
Li-03a	a1Li	Low woodland; mulga between sandridges	17	0
Li-09a	bli	Low woodland; banksia	11	0
Li-09c	b3Li	Low woodland; Banksia prionotes	6	0
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	23	0
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	28	0
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	905	27
SCm-01b	e5c6Mr mSc k3Ci	Succulent steppe; wandoo & Allocasuarina obesa open woodland, teatree thicket & samphire	2027	66
			3216	

Calm Estate Name : Austin Bay Nature Reserve
 Lat: -32.63232 Long: 115.7539 District: Dwellingup

PI Number: 4990

HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	667	71
Mi-01f	e3Mi	Medium woodland; marri	264	27
			931	

Calm Estate Name : Badgingarra National Park
 Lat: -30.4652 Long: 115.4384 District: Moora

PI Number: 31809

HopkinCode	BeardsCode	Description	Area	%
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Appendix 2 continued

Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	1528	11
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	5	0
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	11658	87
				13191
Calm Estate Name : Badjaling Nature Reserve		PI Number: 23758		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	46	20
SZ-03j	xSzC	Shrublands; scrub-heath	195	81
				241
Calm Estate Name : Badjaling North Nature Reserve		PI Number: 10121		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	51	87
SZ-03j	xSzC	Shrublands; scrub-heath	8	13
				58
Calm Estate Name : Badjaling West Nature Reserve		PI Number: 28318		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	3	6
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	51	94
				54
Calm Estate Name : Baladjie Lake Nature Reserve		PI Number: 42720		
Lat: 0	Long: 0	District: Merredin		
HopkinCode	BeardsCode	Description	Area	%
CS-01g	aSi k1Ci	Succulent steppe; saltbush with acacia species	1782	20
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	301	3
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	2637	28
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	199	1
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	896	10
r	n/a	Bare areas; rock outcrops	11	0
sl	n/a	Bare areas; salt lakes	3213	34
				9040
Calm Estate Name : Balicup Lake Nature Reserve		PI Number: 18468		
Lat: -34.2646	Long: 117.7846	District: Albany		
HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	143	20
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	34	5
sl	n/a	Bare areas; salt lakes	510	74
				687

Appendix 2 continued

Calm Estate Name : Balkuling Nature Reserve
 Lat: -31.84903 Long: 117.1187 District: Mundaring

PI Number: 24179

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	21	92
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	2	10
			23	

Calm Estate Name : Ballanup Lake Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 1821

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	7	100
			7	

Calm Estate Name : Ballast Pit Nature Reserve
 Lat: -33.58793 Long: 118.0489 District: Katanning

PI Number: 16226

HopkinCode	BeardsCode	Description	Area	%
Mi-09a	e7Mi	Medium woodland; yate	4	32
Zc-02a	dZc	Shrublands; dryandra heath	8	68
			12	

Calm Estate Name : Bampanup Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 26756

HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a/Li-11d	e2,3Mi/bLi/mLc/c6Li	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree / Low woodland; Casuarina obesa	103	99
			103	

Calm Estate Name : Barbalin Nature Reserve
 Lat: -30.88462 Long: 118.11 District: Merredin

PI Number: 31715

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	120	69
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	53	30
			173	

Calm Estate Name : Barlee Range Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 26808

HopkinCode	BeardsCode	Description	Area	%
Hi-08a	t3Hi	Hummock grasslands, grass steppe; hard spinifex Triodia wiseana	75446	71
Li-04c	a1,11Li	Low woodland; mulga & snakewood	25	0
Si-01e	a1,11Si	Shrublands; mulga & snakewood scrub	30862	28
			106333	

Appendix 2 continued

Calm Estate Name : Barrabarra Nature Reserve Lat: -28.61856 Long: 115.9575 District: Geraldton		PI Number: 28313		
HopkinCode	BeardsCode	Description	Area	%
Mi-06m	e6,22Mi	Medium woodland; York gum & red mallee	574	61
Sc-06a	aSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	362	38
Si-02q	a9,19Si	Shrublands; bowgada & jam scrub	3	0
			938	
Calm Estate Name : Barracca Nature Reserve Lat: -31.52294 Long: 116.0266 District: Mundaring		PI Number: 4070		
HopkinCode	BeardsCode	Description	Area	%
LM-01a/Mp-01a	e2,3Mr.bLi/e2,3,Mp	Mosaic: Medium open woodland; jarrah & marri, with low woodland; banksia / Medium sparse woodland; jarrah & marri	1	
Mc-01a/Mi-01c	e2,3Mc/e3,5Mi	Mosaic: Medium forest; jarrah-marri / Medium woodland; marri-wandoo	18	99
			18	
Calm Estate Name : Bartram Nature Reserve Lat: -32.38262 Long: 116.7321 District: Mundaring		PI Number: 19740		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	21	37
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	36	64
			57	
Calm Estate Name : Bashford Nature Reserve Lat: -30.88915 Long: 115.3837 District: Moora		PI Number: 39221		
HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	80	78
SZ-03i	x9SZc	Shrublands; scrub-heath	22	22
			102	
Calm Estate Name : Basil Road Nature Reserve Lat: -34.64685 Long: 118.6214 District: Albany		PI Number: 29128		
HopkinCode	BeardsCode	Description	Area	%
SZ-01a	e2SZc	Shrublands; jarrah mallee-heath	1161	100
			1161	
Calm Estate Name : Beaumont Nature Reserve Lat: -33.63434 Long: 122.688 District: Esperance		PI Number: 32128		
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	388	3
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	10409	89
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	56	0
			897	7
			11751	

Appendix 2 continued

Calm Estate Name : Bebenorin Nature Reserve Lat: -33.6469 Long: 122.9336 District: Esperance			PI Number: 32800	
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	20	100
			20	
Calm Estate Name : Beebeegnying Nature Reserve Lat: -30.63341 Long: 117.9181 District: Merredin			PI Number: 26911	
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	148	100
			148	
Calm Estate Name : Beejenup Nature Reserve Lat: -34.24412 Long: 117.8359 District: Katanning			PI Number: 30526	
HopkinCode	BeardsCode	Description	Area	%
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	40	78
SZ-01e	enSZc	Shrublands; mallee-heath e	11	22
			51	
Calm Estate Name : Beekeepers Nature Reserve Lat: -29.71044 Long: 115.0173 District: Moora			PI Number: 24496	
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	21	0
Mi-08a	e18Mi	Medium woodland; river gum	27	0
SZ-03f/Li-07f	x6SZc/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	36	0
SZ-03i	x9SZc	Shrublands; scrub-heath	369	0
Sc-02e	a23Sc	Shrublands; Acacia rostellifera thicket	507	0
Sc-03b	a23m3Sc	Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	3145	5
Sc-03b/Lp-01d	a23m3Sc/e44Lp	Mosaic: Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket / Sparse low woodland; illyarrie	179	0
Si-15e	e43Si	Shrublands; mallee scrub, Eucalyptus dongarrensis	1480	2
Sl-01a	c6Lrm5Sc	Shrublands; Melaleuca thyoides thicket with scattered casuarina	3528	4
Sl-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	41133	62
Zc-01a	a26m4Zc	Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath	7657	10
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	3765	3
ds	n/a	Bare areas; drift sand	633	0
sl	n/a	Bare areas; salt lakes	4068	4
			66548	
Calm Estate Name : Bella Vista Nature Reserve Lat: -28.53857 Long: 114.6743 District: Geraldton			PI Number: 40001	
HopkinCode	BeardsCode	Description	Area	%
Sc-09f	mhSc	Shrublands; mixed thicket	71	100
			71	

Appendix 2 continued

Calm Estate Name : Bending Nature Reserve Lat: 0 Long: 0 District:	PI Number: 25681			
HopkinCode	BeardsCode	Description	Area	%
Mi-05f SZ-03j/Sc-04b	e6,8Mi xSz/c3Sc	Medium woodland; York gum & salmon gum Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	293 582	18 37
Si-13d r	e10,27Si n/a	Shrublands; mallee scrub, redwood & black marlock Bare areas; rock outcrops	493 225	31 14
			1593	
Calm Estate Name : Benger Swamp Nature Reserve Lat: -33.16738 Long: 115.8347 District: Harvey/Collie	PI Number: 34811			
HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	127	101
			127	
Calm Estate Name : Bewmalling Nature Reserve Lat: -31.34475 Long: 116.4127 District: Mundaring	PI Number: 30306			
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	38	100
			38	
Calm Estate Name : Biglin Nature Reserve Lat: 0 Long: 0 District:	PI Number: 27202			
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	6	100
			6	
Calm Estate Name : Biljahnies Rock Nature Reserve Lat: -31.31401 Long: 119.8655 District: Merredin	PI Number: 29920			
HopkinCode	BeardsCode	Description	Area	%
Mi-05j Sc-06a r	e8,34Mi c3Sc (=acmSc) n/a	Medium woodland; salmon gum & gimlet Shrublands; thicket, acacia-casuarina-melaleuca alliance Bare areas; rock outcrops	177 753 104	17 73 10
			1034	
Calm Estate Name : Billericay Nature Reserve Lat: 0 Long: 0 District:	PI Number: 24554			
HopkinCode	BeardsCode	Description	Area	%
SZ-03j/Sc-04b	xSz/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	37	15
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	202	83
			239	

Appendix 2 continued

Calm Estate Name : Binaronca Nature Reserve Lat: 0 Long: 0 District:		PI Number: 32552
HopkinCode	BeardsCode	Description
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)
		186
Calm Estate Name : Bindoo Hill Nature Reserve Lat: -28.49597 Long: 115.2263 District: Geraldton		PI Number: 24555
HopkinCode	BeardsCode	Description
Sc-01d/SZ-03d	acSc/x3SzC	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats
Si-02q	a9,19Si	Shrublands; bowgada & jam scrub
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum
		645
Calm Estate Name : Birdwhistle Nature Reserve Lat: 0 Long: 0 District:		PI Number: 19120
HopkinCode	BeardsCode	Description
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet
Mi-05c	e6Mi	Medium woodland; York gum
		401
Calm Estate Name : Birdwood Nature Reserve Lat: -33.68933 Long: 117.2387 District: Katanning		PI Number: 27769
HopkinCode	BeardsCode	Description
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo
Sm-01a	e5,7Mr mSc	Shrublands; teatree thicket with scattered wandoo & yate
		46
Calm Estate Name : Bishops Nature Reserve Lat: -33.30621 Long: 121.5609 District: Esperance		PI Number: 29012
HopkinCode	BeardsCode	Description
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock
		1407
Calm Estate Name : Bobakine Nature Reserve Lat: -31.69208 Long: 116.5384 District: Mundaring		PI Number: 42432
HopkinCode	BeardsCode	Description
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo
		163
Calm Estate Name : Bockaring Nature Reserve		PI Number: 9648

Appendix 2 continued

Lat: -33.3862 Long: 117.4757 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	92	100
			92	

Calm Estate Name : Bokan Nature Reserve

Lat: 0 Long: 0 District:

PI Number: 10631

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	59	12
Mi-05c	e6Mi	Medium woodland; York gum	22	5
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	88	17
SC-02b	mSc k3Ci	Succulent steppe; teatree thicket over samphire m5	162	31
SCm-01b	e5c6Mr mSc k3Ci	Succulent steppe; wandoo & Allocasuarina obesa open woodland, teatree thicket & samphire	26	5
Sm-03b	e6c5Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered casuarina & York gum	1	0
sl	n/a	Bare areas; salt lakes	154	30
			511	

Calm Estate Name : Bokarup Nature Reserve

Lat: -34.33625 Long: 116.8311 District: Manjimup

PI Number: 14739

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	148	100
			148	

Calm Estate Name : Bon Accord Road Nature Reserve
Lat: -34.93552 Long: 117.926 District: Albany

PI Number: 30469

HopkinCode	BeardsCode	Description	Area	%
Li-12d	e2,65 c7Lc	Low woodland; jarrah, E. decipiens & Allocasuarina fraseriana	10	100
			10	

Calm Estate Name : Boolanelling Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 22792

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	34	5
Sm-01f	e5Mr c3Sc	Shrublands; thicket with scattered wandoo	630	96
			664	

Calm Estate Name : Boonadgin Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 21287

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	5	2
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	205	98
			209	

Calm Estate Name : Booraan Nature Reserve

PI Number: 29738

Appendix 2 continued

Lat: -31.4631 Long: 118.4489 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	115	24
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	371	76
			487	

Calm Estate Name : Boorabbin National Park
Lat: 0 Long: 0 District:

PI Number: 35004

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	2306	8
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	2911	10
Mi-06u/Cl-05a	eMi/mLr.k1Ci	Mosaic: Medium woodland; goldfield eucalypts / Succulent steppe; saltbush, with open low woodland; myoporum	4977	17
SZ-03j	xSzC	Shrublands; scrub-heath	15242	53
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	2675	9
r	n/a	Bare areas; rock outcrops	490	0
			28601	

Calm Estate Name : Boothendarra Nature Reserve
Lat: -30.2628 Long: 115.6563 District: Moora

PI Number: 27872

HopkinCode	BeardsCode	Description	Area	%
Zc-02a/SZ-04a	dZc/hSzC	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	2101	100
			2101	

Calm Estate Name : Boundain Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 17115

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	75	26
Mi-05c	e6Mi	Medium woodland; York gum	73	25
Zc-02a	dZc	Shrublands; dryandra heath	142	48
			289	

Calm Estate Name : Bowgada Nature Reserve
Lat: -29.33928 Long: 116.1681 District: Geraldton

PI Number: 29745

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	55	37
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	94	63
			149	

Calm Estate Name : Boyagin Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 11144

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	10	0
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	4566	90

Appendix 2 continued

Mi-05c Sm-01c	e6Mi e6Mr m5Sc	Medium woodland; York gum Shrublands; Melaleuca thyoides thicket with scattered York gum	122 305	1 5
			5003	

Calm Estate Name : Boyermucking Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 12098

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	41	100
			41	

Calm Estate Name : Breakaway Ridge Nature Reserve
Lat: -33.22565 Long: 118.9188 District: Katanning

PI Number: 29019

HopkinCode	BeardsCode	Description	Area	%
Mi-05j Si-11a r	e8,34Mi e15Si n/a	Medium woodland; salmon gum & gimlet Shrublands; mallee scrub E. eremophila Bare areas; rock outcrops	1358 1818 140	41 55 4
			3317	

Calm Estate Name : Broadwater Nature Reserve
Lat: -33.67103 Long: 115.2851 District: Busselton

PI Number: 27080

HopkinCode	BeardsCode	Description	Area	%
Li-08a Sc-02g	agLi a31Sc	Low woodland; Agonis flexuosa Shrublands; Acacia decipiens	32 49	39 61
			81	

Calm Estate Name : Brooking Gorge Conservation Park
Lat: 0 Long: 0 District: West Kimberley

PI Number: 43101

HopkinCode	BeardsCode	Description	Area	%
HK-01c	e22Lp t8,13Hi xZp	Hummock grassland, mixed sandplain - sparse low trees over sparse dwarf shrubs with spinifex; red mallee over mixed dwarf shrubs with Triodia scariosa & T.sp	2473	30
Hi-01b	xLb t3Hr	Hummock grasslands, sparse low tree steppe; x over T. wiseana	4955	61
HL-04b	e24Lr t1,3Hi	Hummock grasslands, open low tree-steppe; bloodwood over T. pungens & T. wiseana	280	3
HS-04b	aSrTHi	Hummock grasslands, shrub-steppe; acacia & spinifex on sandplain + laterite	146	2
KG-03a	aGc/cdGc	Grasslands, tall bunch grass savanna, mitchell & ribbon/blue grass	289	3
			8142	

Calm Estate Name : Brooks Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 4723

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	21	100
			21	

Calm Estate Name : Brookton Highway Nature Reserve

PI Number: 36742

Appendix 2 continued

Lat: -32.4056 Long: 116.7251 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	109	26
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	318	75
			427	

Calm Estate Name : Broomehill Nature Reserve PI Number: 17111
Lat: -33.88784 Long: 117.6946 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-04e	e5,69Mi	Medium woodland; wandoo & blue mallet	11	100
			11	

Calm Estate Name : Bruce Rock Nature Reserve PI Number: 12277
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	41	100
			41	

Calm Estate Name : Buchanan Nature Reserve PI Number: 19116
Lat: -33.09745 Long: 117.5527 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	63	49
Zc-02a	dZc	Shrublands; dryandra heath	64	50
			128	

Calm Estate Name : Bugin Nature Reserve PI Number: 28317
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	16	57
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	12	43
			27	

Calm Estate Name : Bulgin Nature Reserve PI Number: 8830
Lat: -31.65828 Long: 117.0845 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	24	100
			24	

Calm Estate Name : Buller Nature Reserve PI Number: 22199
Lat: -32.88392 Long: 115.8276 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	302	100

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Calm Estate Name : Bullsbrook Nature Reserve Lat: -31.62722 Long: 116.019 District: Mundaring			PI Number: 1654	
HopkinCode	BeardsCode	Description	Area	%
Mc-01a/Mi-01c	e2,3Mc/e3,5Mi	Mosaic: Medium forest; jarrah-marri / Medium Woodland; marri-wandoo	96	80
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	24	20
			120	
Calm Estate Name : Bundegî Coastal Park Lat: 0 Long: 0 District:			PI Number: 40728	
HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	16	5
Hs-02d	a3Sr t1Hi	Hummock grasslands, shrub-steppe; waterwood over Triodia pungens	287	95
			302	
Calm Estate Name : Bungulla Nature Reserve Lat: -31.62712 Long: 117.5904 District: Merredin			PI Number: 33990	
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	24	100
			24	
Calm Estate Name : Buntine Nature Reserve Lat: -29.99647 Long: 116.6336 District: Merredin			PI Number: 26837	
HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	1937	100
			1937	
Calm Estate Name : Burdett Nature Reserve Lat: -33.48252 Long: 122.235 District: Esperance			PI Number: 27385	
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	5	7
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	66	93
			71	
Calm Estate Name : Burdett North Nature Reserve Lat: -33.4923 Long: 122.184 District: Esperance			PI Number: 27387	
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	809	100
			809	
Calm Estate Name : Burdett South Nature Reserve			PI Number: 27388	

Appendix 2 continued

Lat: -33.54344 Long: 122.2018 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	518	13
SZ-03j	xSzC	Shrublands; scrub-heath	179	4
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	3769	84
			4466	

Calm Estate Name : Burges Spring Nature Reserve PI Number: 563
Lat: -31.4805 Long: 117.6832 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	93	100
			93	

Calm Estate Name : Burma Road Nature Reserve PI Number: 26663
Lat: -28.95903 Long: 115.0889 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SzC	Shrublands; scrub-heath on lateritic sandplain	6997	100
			6997	

Calm Estate Name : Burracoppin Nature Reserve PI Number: 18198
Lat: -31.41204 Long: 118.5043 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	11	5
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	29	14
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	160	75
si-10a	e9,39Si	Shrublands; mallee Eucalyptus longicornis & E.sheathiana scrub	6	3
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	7	3
			213	

Calm Estate Name : Burrolool Well Nature Reserve PI Number: 42
Lat: -31.44836 Long: 116.0657 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	11	100
			11	

Calm Estate Name : Bushfire Rock Nature Reserve PI Number: 29535
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	33	29
r	n/a	Bare areas; rock outcrops	80	71
			112	

Appendix 2 continued

Calm Estate Name : Byrd Swamp Nature Reserve PI Number: 2517
 Lat: -33.10758 Long: 115.8082 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	41	100
			41	

Calm Estate Name : Cairlocup Nature Reserve PI Number: 28324
 Lat: -33.72593 Long: 118.7218 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Sc-08d	mSc	Shrublands; teatree thicket	332	21
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1072	68
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	122	8
sl	n/a	Bare areas; salt lakes	57	3
			1582	

Calm Estate Name : Cairn Nature Reserve PI Number: 9754
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	258	34
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	235	31
r	n/a	Bare areas; rock outcrops	268	35
			761	

Calm Estate Name : Calcaling Nature Reserve PI Number: 13051
 Lat: -30.86332 Long: 118.3552 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	64	38
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	104	62
			168	

Calm Estate Name : Camel Lake Nature Reserve PI Number: 26161
 Lat: -34.28818 Long: 117.9833 District: Albany

HopkinCode	BeardsCode	Description	Area	%
CL-01a	mLi k3Ci	Succulent steppe; myoporum low woodland over samphire	431	13
Mi-09a	e7Mi	Medium woodland; yate	43	1
SZ-01e	enSzC	Shrublands; mallee-heath e	2593	80
sl	n/a	Bare areas; salt lakes	164	5
			3232	

Calm Estate Name : Camerer Nature Reserve PI Number: 42370
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	169	100

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Calm Estate Name : Canna Nature Reserve
 Lat: -28.88618 Long: 115.8429 District: Geraldton PI Number: 29289

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	0	
Sc-04a/SM-02c	c3Sc/e6Mr.a19Si	Mosaic: Shrublands; Allocasuarina campestris thicket / Shrublands; jam scrub with scattered York gum in the vales	253	97
Sc-06a	aSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	4	2
			257	

Calm Estate Name : Capamauro Nature Reserve
 Lat: -29.90898 Long: 115.8999 District: Moora PI Number: 24618

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	650	14
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	1958	39
SZ-03g	x7SzC	Shrublands; scrub-heath on lateritic sandhills	2011	43
Sc-08b	m5Sc	Shrublands; Melaeuca thyoidesthicket	19	0
s1	n/a	Bare areas; salt lakes	104	2
			4743	

Calm Estate Name : Cape Arid National Park
 Lat: -33.43413 Long: 123.4784 District: Esperance PI Number: 14234

HopkinCode	BeardsCode	Description	Area	%
Mi-06e	e11,22Mi	Medium woodland; merrit & red mallee	5113	2
SZ-03j	xSzC	Shrublands; scrub-heath	8757	3
SZ-03j/SZ-01c	xSzC/e29 SzC	Mosaic: Shrublands; scrub-heath / Shrublands; Eucalyptus incrassata mallee-heath	124812	44
Sc-09d	dSc	Shrublands; Mt Ragged heath	2397	0
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	22484	8
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	768	0
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	7473	2
Si-15c	e31Si	Shrublands; mallee scrub, white mallee E. cooperana	55958	20
Si-15h	eSi	Shrublands; mallee scrub (Nullabor) e30,31,36	43206	16
ds	n/a	Bare areas; drift sand	6275	1
r	n/a	Bare areas; rock outcrops	1350	0
			278594	

Calm Estate Name : Cape Le Grand National Park
 Lat: -33.9555 Long: 122.1564 District: Esperance PI Number: 22795

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	12153	41
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	10376	36
ds	n/a	Bare areas; drift sand	4881	14
			1388	5
			28798	

Calm Estate Name : Cape Range National Park
 Lat: 0 Long: 0 District: PI Number: 27288

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	33	0
HX-04a	ansSr t1,2Hi	Hummock grassland; shrub steppe; mixed acacia scrub & dwarf scrub with <i>T. pungens</i> & <i>T. basedowii</i>	4878	10
Hi-03b	e24Lb t1,7Hi	Hummock grasslands, sparse tree-steppe; scattered bloodwood over <i>T. pungens</i> & <i>T. sp. indet. aff. angusta</i>	35319	72
Hs-02d	a3Sr t1Hi	Hummock grasslands, shrub-steppe; waterwood over <i>Triodia pungens</i>	6423	13
Hs-03c	a6Sr t2Hi	Hummock grasslands, shrub steppe; <i>Acacia bivenosa</i> over <i>Triodia basedowii</i>	2830	6
			49483	

Calm Estate Name : Cardinia Rocks Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 39148

HopkinCode	BeardsCode	Description	Area	%
Li-11a	c2Li	Low woodland; <i>Allocasuarina cristata</i>	9	30
Mi-06m/HS-01a	e8,22Mi/e22Sr t8Hi	Mosaic: Medium woodland; salmon gum & red mallee / Hummock grasslands, mallee steppe; red mallee over spinifex <i>Triodia scariosa</i>	20	69
			29	

Calm Estate Name : Carlyarn Nature Reserve
Lat: -29.98345 Long: 117.4544 District: Merredin

PI Number: 26259

HopkinCode	BeardsCode	Description	Area	%
Ci-02a	k1Ci	Succulent steppe; saltbush	349	14
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	225	9
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	192	7
SCm-01a	e6Mr m5Sc k3Ci	Succulent steppe; york gum open woodland, <i>Melaleuca thyoides</i> thicket & samphire	1023	39
Sc-02a	a12Sc	Shrublands; <i>Acacia cyperophylla</i> thicket		0
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	516	20
sl	n/a	Bare areas; salt lakes	316	11
			2621	

Calm Estate Name : Carmody Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 26786

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	2	0
Mi-05c	e6Mi	Medium woodland; York gum	3	1
SCm-01b	e5c6Mr mSc k3Ci	Succulent steppe; wandoo & <i>Allocasuarina obesa</i> open woodland, teatree thicket & samphire	228	76
sl	n/a	Bare areas; salt lakes	61	21
			293	

Calm Estate Name : Caron Nature Reserve
Lat: -29.60097 Long: 116.3304 District: Geraldton

PI Number: 26798

HopkinCode	BeardsCode	Description	Area	%
Sc-02a	a12Sc	Shrublands; <i>Acacia cyperophylla</i> thicket	175	58
Sc-02l	anSc	Shrublands; <i>Acacia neurophylla</i> , <i>A. beauverdiana</i> & <i>A. resinomarginata</i> thicket	123	42
			298	

Appendix 2 continued

Calm Estate Name : Carrabin Nature Reserve Lat: -31.39908 Long: 118.674 District: Merredin		PI Number: 16235		
HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	633	81
Si-9c/Mi-05i	e6,39Si/e5,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; wandoo & gimlet	94	12
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	42	5
			769	
Calm Estate Name : Carribin Rock Nature Reserve Lat: -31.35698 Long: 117.4882 District: Merredin		PI Number: 10991		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j/Sc-04a	xSzC/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	23	100
			23	
Calm Estate Name : Carrolup Nature Reserve Lat: -33.69389 Long: 117.3619 District: Katanning		PI Number: 7535		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	10	32
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	1	4
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	19	64
			30	
Calm Estate Name : Cartamulligan Well Nature Reserve Lat: -31.49407 Long: 116.7518 District: Merredin		PI Number: 737		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	18	100
			18	
Calm Estate Name : Cascade Nature Reserve Lat: -33.50904 Long: 121.1645 District: Esperance		PI Number: 31743		
HopkinCode	BeardsCode	Description	Area	%
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock	157	41
Si-14a	e28Si	Shrublands; mallee scrub Eucalyptus nutans	102	26
			132	34
			390	
Calm Estate Name : Casuarina Nature Reserve Lat: -33.32336 Long: 117.3795 District: Katanning		PI Number: 2085		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	74	37
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	36	18
SCm-01c	e5,8c6Mr mSi k3Ci	Succulent steppe; wandoo, salmon gum & Allocasuarina obesa open woodland, teatree scrub &	88	45

Appendix 2 continued

samphire

198

Calm Estate Name : Chandala Nature Reserve
 Lat: -31.49533 Long: 115.9501 District: Mundaring

PI Number: 37060

HopkinCode	BeardsCode	Description	Area	%
Mi-01a	e2,3Mi	Medium woodland; jarrah & marri	27	20
Mi-01a/Li-09a/Lc-03a/Li-11d	e2,3Mi/bLi/mLc/c6Li	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree / Low woodland; Casuarina obesa	6	4
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	3	2
Sc-08d	mSc	Shrublands; teatree thicket	101	74
				138

Calm Estate Name : Charles Gardner Reserve
 Lat: -31.79014 Long: 117.4855 District: Merredin

PI Number: 20041

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	88	10
SZ-03j	xSzC	Shrublands; scrub-heath	694	85
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegelliana	27	3
				808

Calm Estate Name : Charnley River Pastoral Lease
 Lat: 0 Long: 0 District:

PI Number:

HopkinCode	BeardsCode	Description	Area	%
KGM-01d	e50,51Mi xGc	Grasslands, high grass savanna woodland; grey box & cabbage gum over mixed/white grass on basalt and dolerite	6340	18
KGM-02b	e24,48Mi ps2Gc	Grasslands, high grass savanna woodland; bloodwood & stringybark over upland tall grass & curly spinifex	28538	80
cl/md	n/a	Bare areas; clatpans, mudflats	677	1
				35555

Calm Estate Name : Cheadanup Nature Reserve
 Lat: -33.50781 Long: 120.6591 District: Esperance

PI Number: 31754

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	427	6
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	5787	85
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock	611	9
				6825

Calm Estate Name : Cherry Tree Pool Nature Reserve
 Lat: -33.71043 Long: 117.2659 District: Katanning

PI Number: 9091

HopkinCode	BeardsCode	Description	Area	%
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	4	100
				4

Appendix 2 continued

Calm Estate Name : Cheyne Road Nature Reserve
 Lat: -34.81635 Long: 118.2926 District: Albany

PI Number: 27157

HopkinCode	BeardsCode	Description	Area	%
Lc-06c	eclc	Low forest; jarrah & casuarina	362	86
SZ-01d	e65SzC	Shrublands; Albany blackbutt mallee-heath	58	14
			420	

Calm Estate Name : Chiddarcooping Nature Reserve
 Lat: -30.90875 Long: 118.654 District: Merredin

PI Number: 19210

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	948	18
Sc-02l	anSc	Shrublands; <i>Acacia neurophylla</i> , <i>A. beauverdiana</i> & <i>A. resinomarginata</i> thicket	4175	78
r	n/a	Bare areas; rock outcrops	182	3
			5305	

Calm Estate Name : Chilimony Nature Reserve
 Lat: -28.10421 Long: 114.5623 District: Geraldton

PI Number: 8840

HopkinCode	BeardsCode	Description	Area	%
SZ-03a	x2SzC	Shrublands; scrub-heath on coastal association	25	17
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	124	83
			149	

Calm Estate Name : Chillinup Nature Reserve
 Lat: -34.54118 Long: 118.0719 District: Albany

PI Number: 25386

HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	123	38
SZ-01a	e2SzC	Shrublands; jarrah mallee-heath	34	10
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	105	32
sl	n/a	Bare areas; salt lakes	65	20
			327	

Calm Estate Name : Chinamans Pool Nature Reserve
 Lat: -24.86149 Long: 113.6724 District: Gascoyne

PI Number: 31444

HopkinCode	BeardsCode	Description	Area	%
Li-07c	e8Li	Low woodland; salmon gum	23	86
Sp-01b/Ci-02b	a8Sp/k1,2Ci	Mosaic: Shrublands; <i>Acacia sclerosperma</i> sparse scrub /Succulent steppe; saltbush & bluebush	4	14
			26	

Calm Estate Name : Chinocup Nature Reserve
 Lat: -33.43218 Long: 118.4252 District: Katanning

PI Number: 28395

HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	109	1
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	2503	12
Mp-01b/Ci-04b	e8,9Mp.k3Ci	Mosaic: Medium sparse woodland; salmon gum & morrel / Succulent steppe; samphire	2246	8
Mr-02c/Ci-02a	e8,9Mr.k1Ci	Mosaic: Medium open woodland; salmon gum & morrel / Succulent steppe; saltbush	1810	9

Appendix 2 continued

Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	1240	6
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	1044	2
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet		0
r	n/a	Bare areas; rock outcrops	48	0
st	n/a	Bare areas; salt lakes	10940	55

			19940	

Calm Estate Name : Chirelillup Nature Reserve
Lat: -33.96816 Long: 118.1062 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	52	87
Si-11d/Mi-05f	e15,27Si/e6,8Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; York gum & salmon gum	8	13

			60	

Calm Estate Name : Chittering Lakes Nature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Lc-03a	mLc	Low forest; teatree	112	50
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	110	49

			222	

Calm Estate Name : Clackline Nature Reserve
Lat: -31.70329 Long: 116.5007 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	699	100

			699	

Calm Estate Name : Claypit Nature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	37	43
Mi-05c	e6Mi	Medium woodland; York gum	49	57

			86	

Calm Estate Name : Clear And Muddy Lakes Nature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Ci-03d	k2Ci	Succulent steppe; bluebush with saltbush in depressions	1462	76
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	60	3
r	n/a	Bare areas; rock outcrops	253	13
st	n/a	Bare areas; salt lakes	149	8

			1924	

Appendix 2 continued

Calm Estate Name : Clyde Hill Nature Reserve PI Number: 38545
 Lat: -33.35267 Long: 122.9807 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1669	100
			1669	

Calm Estate Name : Coblinine Nature Reserve PI Number: 25133
 Lat: -33.37344 Long: 117.6917 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Li-10b	b3c5Li	Low woodland; Banksia prionotes& Allocasuarina huegellianna	14	0
Mi-04f	e5,9,69Mi	Medium woodland; wandoo, morrell & blue mallet	17	0
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	122	2
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	2	0
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	134	3
Mi-09e	e7mMi	Medium woodland; yate & teatree	3640	85
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	299	7
sl	n/a	Bare areas; salt lakes	10	0
			4239	

Calm Estate Name : Commodine Nature Reserve PI Number: 21056
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	145	100
			145	

Calm Estate Name : Concaring Nature Reserve PI Number: 19093
 Lat: -33.10631 Long: 117.5727 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	58	50
Zc-02a	dZc	Shrublands; dryandra heath	60	51
			118	

Calm Estate Name : Condarnin Rock Nature Reserve PI Number: 29823
 Lat: -31.32071 Long: 119.6702 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	35	13
SZ-03j	xS2c	Shrublands; scrub-heath	1	0
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	109	42
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	8	3
r	n/a	Bare areas; rock outcrops	105	41
			258	

Calm Estate Name : Cookinbin Nature Reserve PI Number: 31629
 Lat: -31.01325 Long: 118.234 District: Merredin

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05j Mp-01c/Ci-02d	e8,34Mi e8,36Mp.k1,3Ci	Medium woodland; salmon gum & gimlet Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	241 138	64 36
378				
Calm Estate Name : Coolgardie Arboretum Lat: 0 Long: 0 District:		PI Number: 31983		
HopkinCode	BeardsCode	Description	Area	%
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	24	99
24				
Calm Estate Name : Coolinup Nature Reserve Lat: -33.73319 Long: 122.3035 District: Esperance		PI Number: 27354		
HopkinCode	BeardsCode	Description	Area	%
SZ-01b SZ-03j	e26SzC xSzC	Shrublands; tallerack mallee-heath Shrublands; scrub-heath	202 13	94 6
215				
Calm Estate Name : Coomallo Nature Reserve Lat: -30.24039 Long: 115.3449 District: Moora		PI Number: 41933		
HopkinCode	BeardsCode	Description	Area	%
Mi-01j Zc-02a/SZ-04a	e3,5,45Mi dZc/hSzC	Medium woodland; marri, wandoo, powderbark Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	547 8347	5 93
8894				
Calm Estate Name : Coomelberrup Nature Reserve Lat: -33.40521 Long: 117.7823 District: Katanning		PI Number: 10472		
HopkinCode	BeardsCode	Description	Area	%
Mi-05r Mi-09e Sm-01c	e5,6,9 Mi e7nMi e6Mr mSc	Medium woodland; wandoo, York gum & morrell Medium woodland; yate & teatree Shrublands; teatree thicket with scattered York gum m5	2 21 70	2 23 75
93				
Calm Estate Name : Coonana Timber Reserve Lat: 0 Long: 0 District:		PI Number: 19640		
HopkinCode	BeardsCode	Description	Area	%
Ct-03b	a1c2Lr k2Ci	Succulent steppe; bluebush, with open low woodland; mulga & sheoak	943	3
Hs-10b	e20Sr t2Hi	Hummock grasslands, shrub steppe; Eucalyptus youngiana over hard spinifex Triodia basedowii	4002	11
Mi-06m/HS-01a	e8,22Mi/e22Sr t8Hi	Mosaic: Medium woodland; salmon gum & red mallee / Hummock grasslands, mallee steppe; red mallee over spinifex Triodia scariosa	31502	85
sl	n/a	Bare areas; salt lakes	21 781	0 2
37250				

Appendix 2 continued

Calm Estate Name : Cootayerup Nature Reserve
 Lat: -34.19896 Long: 116.8869 District: Katanning

PI Number: 16031

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	40	100
			40	

Calm Estate Name : Corackerup Nature Reserve
 Lat: -34.19705 Long: 118.6704 District: Albany

PI Number: 26793

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	1395	32
Si-13a/SZ-01b	e27Si/e26SZc	Mosaic: Shrublands; mallee scrub, black marlock / Shrublands; tallerack mallee-heath	2945	68
			4340	

Calm Estate Name : Corneecup Nature Reserve
 Lat: -33.7056 Long: 118.2994 District: Katanning

PI Number: 24589

HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	281	14
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	1579	80
Si-11d/Mi-05f	e15,27Si/e6,8Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; York gum & salmon gum	97	5
			1956	

Calm Estate Name : Coulomb Point Nature Reserve
 Lat: -17.29801 Long: 122.2781 District: West Kimberley

PI Number: 29983

HopkinCode	BeardsCode	Description	Area	%
A-01a	mangrove	Low forest; mangroves(Kimberley), /Scrub; mangroves (Pilbara)	112	0
P-01b	e50,51Mi a29Sc cpGi	Shrublands, pindan; Acacia tumida shrubland with grey box & cabbage gum medium woodland over ribbon grass & curly spinifex	28186	98
ct/md	n/a	Bare areas; clatpans, mudflats	455	1
			28753	

Calm Estate Name : Coyrecup Nature Reserve
 Lat: -33.71084 Long: 117.8505 District: Katanning

PI Number: 26020

HopkinCode	BeardsCode	Description	Area	%
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	13	0
Mi-09e	e7nMi	Medium woodland; yate & teatree	434	37
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	233	20
Sm-01c	e6Mr mSc	Shrublands; teatree thicket with scattered York gum m5	436	37
sl	n/a	Bare areas; salt lakes	38	2
			1153	

Calm Estate Name : Craig Nature Reserve
 Lat: -31.76783 Long: 117.7366 District: Merredin

PI Number: 30903

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	10	90
SZ-03j	xSZc	Shrublands; scrub-heath	1	10
			11	

Calm Estate Name : Crampton Nature Reserve PI Number: 24472
Lat: -33.0244 Long: 115.7393 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Ti-01a	e4Ti	Tall woodland; tuart	4	100
			4	

Calm Estate Name : Cronin Nature Reserve PI Number: 19098
Lat: -33.20895 Long: 117.6704 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum,wandoo & salmon gum	48	17
Zc-02a	d2c	Shrublands; dryandra heath	230	83
			277	

Calm Estate Name : Crooks Nature Reserve PI Number: 32046
Lat: -32.83843 Long: 118.7456 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	604	100
			604	

Calm Estate Name : Culbin Nature Reserve PI Number: 41004
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	44	100
			44	

Calm Estate Name : Cullen Nature Reserve PI Number: 31192
Lat: -31.88218 Long: 116.5614 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	1	100
			1	

Calm Estate Name : Cutubury Nature Reserve PI Number: 893
Lat: -28.75727 Long: 114.7148 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Lc-01a	a23Lc	Low forest; Acacia rostellifera	15	100
			15	

Calm Estate Name : Dalyup Nature Reserve PI Number: 19628
Lat: -33.71561 Long: 121.5827 District: Esperance

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
S2-01b	e26SzC	Shrublands; tallerack mallee-heath	37	64
Si-07a	mSi	Shrublands; teatree scrub	20	36
				57
Calm Estate Name : Damboring Nature Reserve Lat: -30.52576 Long: 116.6944 District: Merredin		PI Number: 38371		
HopkinCode	BeardsCode	Description	Area	%
SC-02a	m5Sc k3Ci	Succulent steppe; Melaleuca thyoides thicket over salsola	287	75
Sc-05a st	ecSc n/a	Shrublands; mallee & casuarina thicket Bare areas; salt lakes	18 79	5 21
				384
Calm Estate Name : Damnosa Nature Reserve Lat: -33.08614 Long: 119.6636 District: Katanning		PI Number: 24435		
HopkinCode	BeardsCode	Description	Area	%
Si-13e/Mi-05g	eSi/e8,9Mi	Mosaic: Shrublands; mallee scrub, redwood / Medium woodland; salmon gum & morrel	45	100
				45
Calm Estate Name : Dangin Nature Reserve Lat: 0 Long: 0 District:		PI Number: 19570		
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	4	100
				4
Calm Estate Name : Danjinning Nature Reserve Lat: -30.61131 Long: 118.0666 District: Merredin		PI Number: 35679		
HopkinCode	BeardsCode	Description	Area	%
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	407	100
				407
Calm Estate Name : Dattening Nature Reserve Lat: 0 Long: 0 District:		PI Number: 28656		
HopkinCode	BeardsCode	Description	Area	%
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	1	
Mi-05c	e6Mi	Medium woodland; York gum	23	99
				23
Calm Estate Name : De La Poer Range Nature Reserve Lat: 0 Long: 0 District:		PI Number: 41831		
HopkinCode	BeardsCode	Description	Area	%
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i>	33079	44

Appendix 2 continued

Hs-09b	a1e21Sr t2Hi	Hummock grasslands, shrub steppe; mulga and Eucalyptus kingsmillii over hard spinifex Triodia basedowii	34451	46
Li-02a	a1Li	Low woodland; mulga	7406	8
			74936	
Calm Estate Name : Dead Mans Swamp Nature Reserve Lat: -33.50349 Long: 116.9534 District: Katanning		PI Number: 5456		
HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	4	4
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	122	97
			126	
Calm Estate Name : Depot Hill Nature Reserve Lat: -29.76061 Long: 115.3775 District: Moora		PI Number: 28010		
HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SZc	Shrublands; scrub-heath on lateritic sandplain	62	100
			62	
Calm Estate Name : Derdibin Rock Nature Reserve Lat: -31.34444 Long: 117.3487 District: Merredin		PI Number: 34527		
HopkinCode	BeardsCode	Description	Area	%
CM-01f	e6Mi mSp k3Gi	Succulent steppe; yorkgum woodland, sparse teatree scrub & samphire	133	99
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	1	1
			134	
Calm Estate Name : Devonian Reef Conservation Park Lat: 0 Long: 0 District: West Kimberley		PI Number: 43099		
HopkinCode	BeardsCode	Description	Area	%
HX-01c	e22Lp t8,13Hi xZp	Hummock grassland, mixed sandplain - sparse low trees over sparse dwarf shrubs with spinifex; red mallee over mixed dwarf shrubs with Triodia scariosa & T.sp	1612	4
Hi-01c	aMb t3Hr	Hummock grasslands, sparse medium tree steppe; Andersonia gregorii over open T. wiseana on LST	18452	45
Hl-02b	e24Lr t3Hi	Hummock grasslands, open low tree steppe; bloodwood over Triodia wiseana	10144	25
Hl-04b	e24Lr t1,3Hi	Hummock grasslands, open low tree-steppe;	299	1
Hl-04e	e16Lr t4Hi	bloodwood over T. pungens & T. wiseana	7957	19
Hls-02c	e19Lp e21Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; snappy gum over T. intermedia	55	0
Hs-06g	a30Sr t4Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (E. kingsmillii) over hard spinifex Triodia basedowii	1006	2
P-02k	no code	Hummock grasslands, shrub steppe; Acacia impressa over Triodia intermedia on stony lateritic country	29	0
kg-02a	a27b1Lb a1Gc/cdGc	Shrublands, pindan; acacia shrubland with scattered low trees over spinifex	1319	3
kg-02a	a27bLb aGc/cdGc	Grasslands, tall bunch grass savanna sparse low tree; Acacia suberosa & bauhinia over mitchell & ribbon/blue grass on black soil	119	0
		Grasslands, tall bunch grass savanna sparse low		

Appendix 2 continued

kg-02b	b3Lr aGc/cdGc	tree; Acacia suberosa & bauhinia over mitchell & ribbon/blue grass on black soil Grasslands, tall bunch grass savanna low tree; baobabs, bauhinia & beefwood over mitchell & ribbon/blue grass on black soil	46	0
kg-03b	aGc adGc	Grasslands, tall bunch grass savanna, mitchell & mitchell/blue grass	22	0
				41061
Calm Estate Name : Dingerlin Nature Reserve Lat: 0 Long: 0 District:				PI Number: 15266
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	68	100
				68
Calm Estate Name : Dingo Rock Nature Reserve Lat: -30.86309 Long: 116.9707 District: Merredin				PI Number: 13494
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	63	100
				63
Calm Estate Name : Dingo Well Nature Reserve Lat: -31.2303 Long: 117.2772 District: Merredin				PI Number: 14920
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	132	100
				132
Calm Estate Name : Dobaderry Nature Reserve Lat: 0 Long: 0 District:				PI Number: 33188
HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	12	0
Mc-01c	e2,3,5Mc	Medium forest; jarrah-marri-wandoo	1648	40
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	651	16
Mi-05c	e6Mi	Medium woodland; York gum	1012	24
Mr-01c	e5Mr	Medium open woodland; wandoo	264	6
Sm-01c	e6Mr m5Sc	Shrublands; Melaleuca thyoides thicket with scattered York gum	524	13
				4112
Calm Estate Name : Dongolocking Nature Reserve Lat: -33.07863 Long: 117.6919 District: Katanning				PI Number: 19082
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	932	35
Zc-02a	dZc	Shrublands; dryandra heath	1678	63
r	n/a	Bare areas; rock outcrops	37	1
				2647
Calm Estate Name : Dookanooka Nature Reserve Lat: -29.5927 Long: 115.6342 District: Moora				PI Number: 13496

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
SZ-03i/Lp-01e	x9SzC/e5,45Lp	Mosaic: Shrublands; scrub-heath / Sparse low woodland; wandoo & powderbark wandoo	73	24
Sl-01c	e5,45Li cdSc	Shrublands; casuarina & dryandra thicket with scattered wandoo and powderbark wandoo on laterite	230	76
				303
Calm Estate Name : Dowak Nature Reserve Lat: -32.89095 Long: 121.5974 District: Esperance		PI Number: 36608		
HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila /Medium woodland; salmon gum & red mallee	81	100
				81
Calm Estate Name : Down Nature Reserve Lat: -34.95921 Long: 117.7561 District: Albany		PI Number: 20948		
HopkinCode	BeardsCode	Description	Area	%
Gc-01a Li-12d	xGc e2,65 c7Lc	Sedgeland; reed swamps, occasionally with heath Low woodland; jarrah, E. decipiens & Allocasuarina fraseriana	155 572	21 79
				727
Calm Estate Name : Dragon Rocks Nature Reserve Lat: -32.7452 Long: 119.033 District: Katanning		PI Number: 36128		
HopkinCode	BeardsCode	Description	Area	%
Mi-05d SZ-03j Si-13a Si-13d/Mi-05d	e8Mi xSzC e27Si eSi/e8Mi	Medium woodland; salmon gum Shrublands; scrub-heath Shrublands; mallee scrub, black marlock Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum Bare areas; rock outcrops	592 4879 24464 1021 983	2 15 77 4 0
				31939
Calm Estate Name : Dragon Rocks Nature Reserve PI Number: 36128 Lat: -32.7452 Long: 119.033 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Mi-05d Si-13a	e8Mi e27Si	Medium woodland; salmon gum Shrublands; mallee scrub, black marlock	70 300	19 80
				370
Calm Estate Name : Drovers Cave National Park Lat: -30.2307 Long: 115.0914 District: Moora		PI Number: 31302		
HopkinCode	BeardsCode	Description	Area	%
SZ-03i	x9SzC	Shrublands; scrub-heath	2629	100
				2629
Calm Estate Name : Drummond Nature Reserve		PI Number: 42808		

Appendix 2 continued

Lat: 0 Long: 0 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	450	100
			450	

Calm Estate Name : Drysdale River National Park PI Number: 32853

Lat: -15.17288 Long: 126.776 District: East Kimberley

HopkinCode	BeardsCode	Description	Area	%
KGM-01b	e50,51Mi s1,2Gc	Grasslands, high grass savanna woodland; grey box & cabbage gum over white grass	21775	3
KGM-01e	e51,52Mi xGc	Grasslands, high grass savanna woodland; cabbage gum & ghost gum over mixed/white grass, riverain	3637	0
KGM-02f	e48,49Mi ps2Gc	Grasslands, high grass savanna woodland; stringybark & woollybutt over upland tall grass & curly spinifex	115182	24
KGM-02g	e48,49,Mi (s2)t11Gc	Grasslands, high grass savanna woodland; stringybark & woollybutt over upland tall grass & curly spinifex	301269	69
Mi-10b	e48,49MilPi	Medium woodland-tropical messmate; stringybark & woollybutt with understory of palms	4258	0
			446122	

Calm Estate Name : Dukin Nature Reserve

PI Number: 16867

Lat: -30.95465 Long: 117.4136 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	12	4
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	8	2
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	57	17
sl	n/a	Bare areas; salt lakes	257	77
			335	

Calm Estate Name : Duladgin Nature Reserve

PI Number: 2179

Lat: -31.17166 Long: 119.6788 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
CS-01f	aSi k1,3Ci	Succulent steppe; saltbush & samphire with acacia species	26	2
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	984	73
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	273	20
r	n/a	Bare areas; rock outcrops	39	3
sl	n/a	Bare areas; salt lakes	29	2
			1351	

Calm Estate Name : Dulbelling Nature Reserve

PI Number: 10584

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	53	100
			53	

Calm Estate Name : Dulbining Nature Reserve

PI Number: 27286

Appendix 2 continued

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Li-02a	a11i	Low woodland; mulga	297	51
Mi-05c	e6Mi	Medium woodland; York gum	285	49
			582	

Calm Estate Name : Dumbleyung Lake Nature Reserve PI Number: 26664

Lat: -33.33966 Long: 117.6405 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Li-10b	b3c5Li	Low woodland; Banksia prionotes & Allocasuarina huegellianna	9	0
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	158	3
sl	n/a	Bare areas; salt lakes	3947	96
			4113	

Calm Estate Name : Dundas Nature Reserve PI Number: 36957

Lat: -32.42152 Long: 122.2023 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
CM-01d	e34Mi k1Ci	Succulent steppe; gimlet woodland & saltbush	16404	2
Ci-02a	k1Ci	Succulent steppe; saltbush	1999	0
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	29421	4
Mi-06b	e10,22Mi	Medium woodland; redwood & red mallee	111154	14
Mi-06e	e11,22Mi	Medium woodland; merrit & red mallee	91461	11
Mi-06e/Si-06a	e11,22Mi/dSi	Mosaic: Medium woodland; merrit (or a11) & red mallee / Shrublands; dryandra scrub	978	0
Mi-06k	e14,22Mi	Medium woodland; Dundas blackbutt & red mallee	150117	19
Si-11a/Mi-06d	e15Si/e11,12Mi	Mosaic: Shrublands; mallee scrub E. eremophila / Medium woodland; merrit & coral gum	370591	46
Si-11a/Mi-06g	e8,14Mi/e15Si	Mosaic: Shrublands; mallee scrub E. eremophila / Medium woodland; salmon gum & Dundas blackbutt	5745	1
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila / Medium woodland; salmon gum & red mallee	814	0
r	n/a	Bare areas; rock outcrops	2477	0
sl	n/a	Bare areas; salt lakes	3491	0
			784652	

Calm Estate Name : Dunn Rock Nature Reserve PI Number: 36445

Lat: -33.35339 Long: 119.436 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	516	1
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	333	1
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	2431	8
SZ-03j	xSZc	Shrublands; scrub-heath	4251	14
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	19709	71
r	n/a	Bare areas; rock outcrops	77	0
sl	n/a	Bare areas; salt lakes	62	0
			27379	

Calm Estate Name : Durokoppin Nature Reserve PI Number: 22921

Lat: -31.4088 Long: 117.7519 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	682	65
SZ-03j	xSZc	Shrublands; scrub-heath	366	34

Appendix 2 continued

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Calm Estate Name : East Collamilling Nature Reserve PI Number: 20835
 Lat: -33.16074 Long: 117.6234 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b Zc-02a	e5,6,8Mi dZc	Medium woodland; York gum, wandoo & salmon gum Shrublands; dryandra heath	61 96	39 61
				157

Calm Estate Name : East Latham Nature Reserve PI Number: 14566
 Lat: -29.76927 Long: 116.5793 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	121	100
				121

Calm Estate Name : East Naemup Nature Reserve PI Number: 31755
 Lat: -33.66964 Long: 120.7841 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-01b Si-13a r	e26SzC e27Si n/a	Shrublands; tallerack mallee-heath Shrublands; mallee scrub, black marlock Bare areas; rock outcrops	131 620 77	16 75 9
				827

Calm Estate Name : East Nugadong Nature Reserve PI Number: 20372
 Lat: -30.19494 Long: 116.8906 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05c Sc-02l	e6Mi anSc	Medium woodland; York gum Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	35 802	4 96
				837

Calm Estate Name : East Wallambin Nature Reserve PI Number: 15570
 Lat: -30.98018 Long: 117.7342 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05m Sc-06a	e6,8,34Mi anSc (=acmSc)	Medium woodland; York gum, salmon gum & gimlet Shrublands; thicket, acacia-casuarina-melaleuca alliance	35 4	90 10
				39

Calm Estate Name : East Yorkrakine Nature Reserve PI Number: 23085
 Lat: -31.38277 Long: 117.6621 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	79	100

Appendix 2 continued

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Calm Estate Name : East Yornaning Nature Reserve Lat: 0 Long: 0 District:			PI Number: 18952	
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	209	81
Mi-05c	e6Mi	Medium woodland; York gum	45	16
			255	
Calm Estate Name : East Yuna Nature Reserve Lat: -28.39395 Long: 115.202 District: Geraldton			PI Number: 28415	
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	37	2
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	270	15
Sc-01d/SZ-03d	acSc/x3SzC	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats	1185	66
Si-02q	a9,19Si	Shrublands; bowgada & jam scrub	137	7
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	89	5
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum	54	3
			1772	
Calm Estate Name : Eaton Nature Reserve Lat: -31.37291 Long: 117.006 District: Merredin			PI Number: 4313	
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	43	100
			43	
Calm Estate Name : Elashgin Nature Reserve Lat: -31.33422 Long: 117.4432 District: Merredin			PI Number: 10992	
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	36	14
SZ-03j/Sc-04a	xSzC/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	207	80
r	n/a	Bare areas; rock outcrops	16	6
			259	
Calm Estate Name : Ellen Brook Nature Reserve Lat: 0 Long: 0 District:			PI Number: 27620	
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	68	100
			68	
Calm Estate Name : Elliot Nature Reserve Lat: -31.10866 Long: 117.5573 District: Merredin			PI Number: 16913	
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	44	100
			44	
Calm Estate Name : Elphin Nature Reserve Lat: -30.86236 Long: 116.6878 District: Merredin		PI Number: 25808		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f Sc-05a	e6,8Mi ecSc	Medium woodland; York gum & salmon gum Shrublands; mallee & casuarina thicket	23 179	11 89
			201	
Calm Estate Name : Emu Hill Nature Reserve Lat: 0 Long: 0 District:		PI Number: 25039		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c SZ-03j/sc-04b	e6Mi xS2c/c3Sc	Medium woodland; York gum Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	7 55	11 81
			62	
Calm Estate Name : Emu Rocks Timber Reserve Lat: 0 Long: 0 District:		PI Number: 19645		
HopkinCode	BeardsCode	Description	Area	%
Hs-10b	e20Sr t2Hi	Hummock grasslands, shrub steppe; Eucalyptus youngiana over hard spinifex Triodia basedowii	2107	26
Mi-06m/HS-01a	e8,22Mi/e22Sr t8Hi	Mosaic: Medium woodland; salmon gum & red mallee / Hummock grasslands, mallee steppe; red mallee over spinifex Triodia scariosa	6073	74
			8180	
Calm Estate Name : Eneminga Nature Reserve Lat: -30.80983 Long: 115.5227 District: Moora		PI Number: 27394		
HopkinCode	BeardsCode	Description	Area	%
Li-09b Zc-02a/SZ-04a	b1,2Lj dZc/hSZc	Low woodland; Banksia attenuata & B. menziesii Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	744	101 0
			744	
Calm Estate Name : Eradu Nature Reserve Lat: -28.72168 Long: 115.0418 District: Geraldton		PI Number: 2070		
HopkinCode	BeardsCode	Description	Area	%
SZ-03c Sm-02c	x4SZc e6Mr a19Si	Shrublands; scrub-heath on lateritic sandplain Shrublands; jam scrub with scattered York gum	2 62	4 96
			64	
Calm Estate Name : Eucla National Park Lat: -31.68376 Long: 128.9586 District: Esperance		PI Number: 36205		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Cl-04b	a13Lr kCi	Succulent steppe; saltbush & bluebush, with open low woodland; <i>A. papyrocarpa</i> (k=1,2)	258	8
Si-15b ds	e30Si n/a	Shrublands; mallee scrub, blue mallee <i>E. socialis</i> Bare areas; drift sand	1782 1121	56 35
				3161

Calm Estate Name : Fields Nature Reserve
Lat: -33.45865 Long: 121.2287 District: Esperance

PI Number: 31742

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	181	15
Si-11e	e15,32Si	Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & Forrests marlock	958	81
Si-14a	e28Si	Shrublands; mallee scrub <i>Eucalyptus nutans</i>	48	4
			1187	

Calm Estate Name : Fitzgerald River National Park
Lat: -33.98475 Long: 119.616 District: Albany

PI Number: 31737

HopkinCode	BeardsCode	Description	Area	%
Mi-09a	e7Mi	Medium woodland; yate	560	0
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	210	0
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	127239	47
Sc-09e	edSc	Shrublands; <i>Dryandra quercifolia</i> & <i>Eucalyptus</i> spp. thicket	2108	0
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	754	0
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	76395	25
Si-13a/Mi-09a	eSi/e7Mi	Mosaic: Shrublands; mallee scrub, black marlock / Medium woodland; yate	146	0
Si-13a/SZ-01b	e27Si/e26SzC	Mosaic: Shrublands; mallee scrub, black marlock / Shrublands; tallerack mallee-heath	49039	17
Zi-01b	xzi	Shrublands; dwarf scrub on granite (South coast)	182	0
ds	n/a	Bare areas; drift sand	533	0
fl	n/a	Bare areas; freshwater lakes	1170	0
			258336	

Calm Estate Name : Flagstaff Lake Nature Reserve
PI Number: 27609
Lat: -33.49718 Long: 117.2606 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	1	0
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	0	0
SCm-01c	e5,8c6Mr mSi k3Ci	Succulent steppe; wandoo, salmon gum & <i>Allocasuarina obesa</i> open woodland, teatree scrub & samphire	420	99
			422	

Calm Estate Name : Flat Rock Gully Nature Reserve
Lat: -31.39802 Long: 116.4111 District: Mundaring

PI Number: 22096

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	195	50
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	197	50
			391	

Calm Estate Name : Flat Rock Nature Reserve

PI Number: 27487

Appendix 2 continued

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	716	49
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	729	49
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	15	1
				1460

Calm Estate Name : Flowery Patch Nature Reserve
Lat: -31.46928 Long: 117.3144 District: Merredin

PI Number: 564

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	14	65
SZ-03j/Sc-04a	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	7	35
				21

Calm Estate Name : Folly Nature Reserve
Lat: -31.29377 Long: 117.5086 District: Merredin

PI Number: 15895

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	8	100
				8

Calm Estate Name : Formby Nature Reserve
Lat: -34.30033 Long: 118.0684 District: Albany

PI Number: 9159

HopkinCode	BeardsCode	Description	Area	%
Mi-09a	e7Mi	Medium woodland; yate	14	36
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	25	64
				39

Calm Estate Name : Forrestdale Lake Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 24781

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	133	54
Mi-01f sl	e3Mi n/a	Medium woodland; marri Bare areas; salt lakes	40 76	16 30
				249

Calm Estate Name : Fourteen Mile Brook Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 21830

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	44	100
				44

Calm Estate Name : Fowler Gully
Lat: 0 Long: 0 District: Merredin

PI Number: 42375

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	18	8
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	124	53
Sc-09b	c3dSc	Shrublands; Tamma & Dryandra thicket	90	39
			232	

Calm Estate Name : Francois Peron National Park
Lat: 0 Long: 0 District: Gascoyne PI Number: 42471

HopkinCode	BeardsCode	Description	Area	%
Ci-03a	k2Ci	Succulent steppe; bluebush	2639	3
Hi-09c	t9Hi	Hummock grasslands, grass steppe; spinifex Triodia plurinervata	421	1
Hs-06i	a22Sr t9Hi	Hummock grasslands, shrub steppe; Acacia ligulata over Triodia plurinervata	69	0
Sc-02d	a22Sc	Shrublands;Acacia ligulata x rostellifera thicket	9615	20
Sc-09a	a Sc	Shrublands; Acacia-Lamarchea thicket	16680	34
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	18995	39
			48419	

Calm Estate Name : Frank Hann National Park
Lat: -32.9636 Long: 120.187 District: Esperance PI Number: 27023

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	1791	1
Mi-06e	e11,22Mi	Medium woodland; merrit & red mallee	1086	2
Mi-06p	e8Mi/e11,22Mi	Medium woodland mixed; salmon gum with, merrit & red mallee	521	1
Mi-06q	e8Mi/e11,23Mi	Medium woodland mixed; salmon gum with, merrit & desert bloodwood Eucalyptus sp.	2532	3
SZ-03j	xSzC	Shrublands; scrub-heath	6446	10
SZ-03j/SZ-01b	xSzC/e26 SzC	Mosaic: Shrublands; scrub-heath / Shrublands; tallerack mallee-heath	671	1
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	407	1
Sc-09c	c4Sc	Shrublands; Allocasuarina - Calothamnus thicket	530	0
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	44336	65
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila /Medium woodland; salmon gum & red mallee	9836	14
r	n/a	Bare areas; rock outcrops	434	0
st	n/a	Bare areas; salt lakes	577	0
			34	0
			69200	

Calm Estate Name : Friday Island Nature Reserve
Lat: -26.10321 Long: 113.4047 District: Gascoyne PI Number: 33829

HopkinCode	BeardsCode	Description	Area	%
HX-06a	xZhC	Hummock grassland; shrub Steppe; mixed ericoid	1	100
		Hummock grassland; shrubs & spinifex,	1	

Calm Estate Name : Gabbin Nature Reserve
Lat: -30.79243 Long: 117.679 District: Merredin PI Number: 16683

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	83	100

Appendix 2 continued

83

Calm Estate Name : Gabwotting Nature Reserve
Lat: -31.40968 Long: 117.079 District: Merredin

PI Number: 13242

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	13	84
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-metaleuca alliance	3	16
			16	

Calm Estate Name : Galena Nature Reserve
Lat: -27.8746 Long: 114.7108 District: Geraldton

PI Number: 27083

HopkinCode	BeardsCode	Description	Area	%
Sm-03a	c5e6Mr a19Si	Shrublands; jam scrub with scattered casuarina & York gum	215	100
			215	

Calm Estate Name : Gathercole Nature Reserve
Lat: -30.91395 Long: 116.7942 District: Merredin

PI Number: 20436

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	32	21
r	n/a	Bare areas; rock outcrops	116	78
			148	

Calm Estate Name : Geekabee Hill Nature Reserve
Lat: -34.31337 Long: 117.395 District: Katanning

PI Number: 30916

HopkinCode	BeardsCode	Description	Area	%
Li-07a	e2Li	Low Woodland; jarrah	4	100
			4	

Calm Estate Name : Geeraning Nature Reserve
Lat: -30.52296 Long: 118.5982 District: Merredin

PI Number: 23338

HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; <i>Acacia neurophylla</i> , <i>A. beauverdiana</i> & <i>A. resinomarginata</i> thicket	657	96
r	n/a	Bare areas; rock outcrops	24	4
			681	

Calm Estate Name : Geikie Gorge Conservation Park
Lat: 0 Long: 0 District: West Kimberley

PI Number: 43100

HopkinCode	BeardsCode	Description	Area	%
Hi-01b	xLb t3Hr	Hummock grasslands, sparse low tree steppe; x over <i>T. wiseana</i>	2868	58
HL-04b	e24Lr t1,3Hi	Hummock grasslands, open low tree-steppe; bloodwood over <i>T. pungens</i> & <i>T. wiseana</i>	1800	36
kGm-01a	e17Mr cGc	Grasslands, tall bunch grass savanna woodland, coolabah over ribbon grass	56	1
kGm-01c	e52,17Mr cGc	Grasslands, tall bunch grass savanna woodland,	224	5

Appendix 2 continued

coolebah & ghost gum over ribbon grass

4948

Calm Estate Name : Geikie Gorge National Park PI Number: 28401
 Lat: -18.07735 Long: 125.7184 District: West Kimberley

HopkinCode	BeardsCode	Description	Area	%
Hi-01b	xLb t3Hr	Hummock grasslands, sparse low tree steppe; x over T. wiseana	2125	78
Hi-04b	e24Lr t1,3Hi	Hummock grasslands, open low tree-steppe; bloodwood over T. pungens & T. wiseana	91	3
kGm-01a	e17Mr cGc	Grasslands, tall bunch grass savanna woodland, coolebah over ribbon grass	496	18
kGm-01c	e52,17Mr cGc	Grasslands, tall bunch grass savanna woodland, coolebah & ghost gum over ribbon grass	40	1
			2751	

Calm Estate Name : Gibson Desert Nature Reserve
 PI Number: 34606

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Ci-01a	xCi	Succulent steppe; heterogeneous spp	10767	1
GM-01a	e17Mi xGc	Sedgeland; sedges with medium woodland; sedges with coolabah over various sedges	64897	3
Hi-05b	a1Sp t2Hi	Hummock grasslands, patchy shrub steppe; scattered groups of mulga over Triodia basedowii	951627	64
Hs-03e	a/nSr t2Hi	Hummock grasslands, shrub-steppe; acacia species over Triodia basedowii	27619	2
Hs-03e	anSr t2Hi	Hummock grasslands, shrub-steppe; acacia species over Triodia basedowii on sand dunes	18382	1
Mp-01d/ Hi-07a	c1Mp t2Hi	Mosaic: Medium sparse woodland; desert oak between sand dunes / Hummock grasslands, grass steppe; hard spinifex Triodia basedowii	18055	1
Si-01a	a1Si	Shrublands; mulga scrub	260323	17
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	125709	9
st	n/a	Bare areas; salt lakes	14619	0
			1491997	

Calm Estate Name : Gingin Stock Route Nature Reserve PI Number: 34761
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	37	81
Mr-01b	e3Mr	Medium open woodland; marri	9	19
			46	

Calm Estate Name : Gledhow Nature Reserve PI Number: 5205
 Lat: -35.0121 Long: 117.8322 District: Albany

HopkinCode	BeardsCode	Description	Area	%
Li-08a	aLi	Low woodland; Agonis flexuosa	4	100
			4	

Calm Estate Name : Glenluce Nature Reserve PI Number: 25112
 Lat: -31.78605 Long: 117.6733 District: Merredin

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	18	8
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt	221	92
SZ-03j	xSzC	sparse woodland, teatree scrub & samphire Shrublands; scrub-heath	1	1
				241

Calm Estate Name : Gnangara-Moore River State
Lat: 0 Long: 0 District:

PI Number: 65

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	1	100
			1	

Calm Estate Name : Gnangara-Moore River State Forest
Lat: 0 Long: 0 District:

PI Number: 65

HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	41	0
Li-09a	bli	Low woodland; banksia	50387	75
Li-09a/Sc-08d	bLi/mSc	Mosaic: Low woodland; banksia / Shrublands; teatree thicket	3141	1
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	1903	3
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	3983	5
Mr-02a	e4Mr	Medium open woodland; tuart	132	0
Mr-03a	e3,18Mr	Medium woodland; marri & river gum	127	0
SZ-03j	xSzC	Shrublands; scrub-heath	1538	2
Sc-08d	mSc	Shrublands; teatree thicket	131	0
Zc-01a/Sc-02h	a26m4Zc/a23,32Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Acacia cyclops thicket	2	0
fl	n/a	Bare areas; freshwater lakes	9	0
			61393	

Calm Estate Name : Gnarkaryelling Nature Reserve
Lat: -33.26831 Long: 117.5618 District: Katanning

PI Number: 9620

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	18	100
			18	

Calm Estate Name : Goodenough Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 6799

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	71	100
			71	

Calm Estate Name : Goodlands Nature Reserve
Lat: -29.98556 Long: 117.3715 District: Merredin

PI Number: 27283

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	23	2
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	1240	90
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	108	8

Appendix 2 continued

r	n/a	Bare areas; rock outcrops	3	0
			1374	
Calm Estate Name : Goongarrie National Park Lat: 0 Long: 0 District:		PI Number: 35637		
HopkinCode	BeardsCode	Description	Area	%
Cl-02a	a1lr k1Ci	Succulent steppe; saltbush with open low mulga	2035	3
Li-05a	a1c2eLi	Low woodland; mulga mixed with Allocasuarina cristata, & Eucalyptus sp (e6)	54783	92
Sc-02c	a19Sc	Shrublands; jam thicket	362	0
r	n/a	Bare areas; rock outcrops	185	0
sl	n/a	Bare areas; salt lakes	1737	3
			59102	
Calm Estate Name : Goongarrie Pastoral lease Lat: 0 Long: 0 District:		PI Number:		
HopkinCode	BeardsCode	Description	Area	%
Ci-03d	k2Ci	Succulent steppe; bluebush with saltbush in depressions	987	1
Cl-02a	a1Lr k1Ci	Succulent steppe; saltbush with open low mulga	4539	5
Cl-03a	a1c2Lr k1Ci	Succulent steppe; salt bush, with open low woodland; mulga & sheoak	7697	8
HS-01a	e22Si t8Hi	Hummock grasslands, mallee steppe; red mallee over spinifex Triodia scariosa	3746	4
HX-02a	e22Sr t2Hi x2p	Hummock grasslands, mixed sandplain - open mallee over sparse dwarf shrubs with spinifex ; red mallee mallee & mixed sparse dwarf shrubs over T. basedowii	6662	6
Li-02a	a1Li	Low woodland; mulga	680	1
Li-05a	a1c2eLi	Low woodland; mulga mixed with Allocasuarina cristata, & Eucalyptus sp (e6)	37772	36
Li-05c	a1c2Li	Low woodland; mulga & Allocasuarina cristata	4147	3
Li-11a	c2Li	Low woodland; Allocasuarina cristata	1880	1
Mi-05d	e8Mi	Medium woodland; salmon gum	434	0
Mi-06l	e22Mi	Medium woodland; red mallee on calcareous earths (also e10,11,13,14)	3065	3
Mi-06n	e8,22Mi	Medium woodland; salmon gum & red mallee	5926	6
Sc-02c	a19Sc	Shrublands; jam thicket	1541	2
Si-02o	a9,14Si	Shrublands; bowgada & Acacia quadrimerinea on stony ridges	880	1
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	12201	12
r	n/a	Bare areas; rock outcrops	1188	0
sl	n/a	Bare areas; salt lakes	5972	5
			99319	
Calm Estate Name : Gorge Rock Nature Reserve Lat: 0 Long: 0 District:		PI Number: 16714		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	16	61
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	10	39
			26	
Calm Estate Name : Granite Hill Nature Reserve Lat: -34.70802 Long: 118.0618 District: Albany		PI Number: 40101		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Lc-06a	e2Lc	Low forest; jarrah	126	100
			126	

Calm Estate Name : Great Sandy Island Nature Reserve Lat: 0 Long: 0 District:	PI Number: 33831			
HopkinCode	BeardsCode	Description	Area	%
A-01a	mangrove	Low forest; mangroves(Kimberley), /Scrub; mangroves (Pilbara)	2140	6
Ci-04a	k3Ci	Succulent steppe; samphire	958	3
Gc-02a	xGc	Short bunch grassland - savanna /grass plain (Pilbara)	342	1
Gc-02a/Hi-06a	xGc/t1Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex <i>Triodia pungens</i>	216	1
Gc-02c/Hs-02a	a11Sb xGc/a2Sr t1Hi	Mosaic: Sedgeland; various sedges with very sparse snakewood/ Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i>	2185	3
Gl-01b	e40Lr xGc	Sedgeland; sedges with open low tree sananna; <i>Eucalyptus</i> sp. aff <i>aspera</i> over various sedges	974	1
Hi-06a	t1Hi	Hummock grasslands, grass steppe; soft spinifex <i>Triodia pungens</i>	766	0
Hs-02a	a2Sr t1Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i>	363	0
Hs-02c	a2,11Sr t1Hi	Hummock grasslands, shrub-steppe; kanji & snakewood over <i>Triodia pungens</i>	187	1
ct/md	n/a	Bare areas; clatpans, mudflats	28096	78
			36228	

Calm Estate Name : Great Victoria Desert Nature Reserve Lat: 0 Long: 0 District:	PI Number: 30490			
HopkinCode	BeardsCode	Description	Area	%
CL-05a	a1c2Li k2Ci	Succulent steppe; bluebush with open low woodland; mulga & sheoak	245135	10
CL-05b	a1c2Li kCi	Succulent steppe with open low woodland; mulga & sheoak	447638	18
Ci-01a	xCi	Succulent steppe; heterogeneous spp	43428	0
Ci-03a	k2Ci	Succulent steppe; bluebush	389927	15
Cl-04b	a13Lr kCi	Succulent steppe; saltbush & bluebush, with open low woodland; <i>A. papyrocarpa</i> (k=1,2)	796550	30
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i>	1961	0
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i>	395886	16
Hs-10d	e22Sr t8Hi	Hummock grasslands, shrub steppe; red mallee over spinifex <i>Triodia scariosa</i>	32678	1
Li-05a	a1c2eLi	Low woodland; mulga mixed with <i>Allocasuarina cristata</i> , & <i>Eucalyptus</i> sp (e6)	67999	3
Li-05c	a1c2Li	Low woodland; mulga & <i>Allocasuarina cristata</i>	102127	4
			2523330	

Calm Estate Name : Greaves Road Nature Reserve Lat: -34.2825 Long: 118.5136 District: Albany	PI Number: 17298			
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	255	100
			255	

Appendix 2 continued

Calm Estate Name : Greenmount National Park
 Lat: -31.90672 Long: 116.0596 District: Mundaring

PI Number: 25313

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	58	100
			58	

Calm Estate Name : Griffiths Nature Reserve
 Lat: -33.35402 Long: 121.0943 District: Esperance

PI Number: 30583

HopkinCode	BeardsCode	Description	Area	%
Mi-05p	e6,8,9,34,35Mi	Medium woodland; wandoo, salmon gum, morrel, gimlet & blackbutt	37	1
SZ-01b	e26S2c	Shrublands; tallerack mallee-heath	2	0
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	92	2
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	3875	72
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock	1296	24
r	n/a	Bare areas; rock outcrops	114	1
			5415	

Calm Estate Name : Gundaring Lake Nature Reserve
 Lat: -33.29943 Long: 117.4915 District: Katanning

PI Number: 24373

HopkinCode	BeardsCode	Description	Area	%
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	305	96
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	0	0
SCm-01c	e5,8c6Mr mSi k3Ci	Succulent steppe; wandoo, salmon gum & Allocasuarina obesa open woodland, teatree scrub & samphire	13	3
			318	

Calm Estate Name : Gundaring Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 11039

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	40	32
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegelliana	88	69
			129	

Calm Estate Name : Gunyidi Nature Reserve
 Lat: -30.18585 Long: 116.0352 District: Moora

PI Number: 23602

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	24	18
SZ-03h	x8S2c	Shrublands; scrub-heath on sandplain	97	73
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	13	10
			133	

Calm Estate Name : Haddleton Springs Nature Reserve
 Lat: -33.62256 Long: 116.582 District: Harvey/Collie

PI Number: 19784

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	40	100
			-----	40
Calm Estate Name : Hamelin Pool Marine Nature Reserve	Lat: 0 Long: 0 District:	PI Number: 6		
HopkinCode	BeardsCode	Description	Area	%
Ci-03a	k2Ci	Succulent steppe; bluebush	14	1
Ci-04a	k3Ci	Succulent steppe; samphire	145	6
Hs-06i	a22Sr t9Hi	Hummock grasslands, shrub steppe; Acacia ligulata over Triodia plurinervata	43	2
Si-02a	a3,10Si	Shrublands; waterwood & A. victoriae scrub	58	2
Si-02c	a8,9Si	Shrublands; Acacia sclerosperma & bowgada scrub	1	0
Si-02l	a8,17Si	Shrublands; Acacia sclerosperma & minnieritchie scrub	155	6
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	1676	69
cl/md	n/a	Bare areas; clatpans, mudflats	224	9
ds	n/a	Bare areas; drift sand	87	3

			2403	
Calm Estate Name : Harris Nature Reserve	Lat: -32.8514 Long: 118.816 District: Katanning	PI Number: 32549		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	285	8
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	3133	90
r	n/a	Bare areas; rock outcrops	94	2

			3512	
Calm Estate Name : Harrismith Nature Reserve	Lat: 0 Long: 0 District:	PI Number: 13258		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	39	100

			39	
Calm Estate Name : Harry Waring Marsupial Reserve	Lat: 0 Long: 0 District:	PI Number: 29241		
HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	125	53
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	110	47

			234	
Calm Estate Name : Harvey Flats Nature Reserve	Lat: -32.97057 Long: 115.8135 District: Harvey/Collie	PI Number: 12049		
HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	82	100

			82	
Calm Estate Name : Hassell National Park	Lat: -34.67903 Long: 118.3702 District: Albany	PI Number: 26650		

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Lc-06c	eclc	Low forest; jarrah & casuarina	82	8
Mi-01a	e2,3Mi	Medium woodland; jarrah & marri	45	4
SZ-01a	e2SZc	Shrublands; jarrah mallee-heath	975	88
SZ-03j	xSZc	Shrublands; scrub-heath	2	0
			1104	
Calm Estate Name : Hayes Nature Reserve Lat: -33.29597 Long: 120.0762 District: Albany		PI Number: 29184		
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	304	23
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	993	76
			1297	
Calm Estate Name : Heathland Nature Reserve Lat: -33.11088 Long: 118.6739 District: Katanning		PI Number: 26762		
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	645	100
			645	
Calm Estate Name : Herndermuning Nature Reserve Lat: -30.29318 Long: 117.7711 District: Merredin		PI Number: 24539		
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	22	14
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	142	86
			164	
Calm Estate Name : Hidden Valley National Park Lat: -15.7727 Long: 128.771 District: East Kimberley		PI Number: 37883		
HopkinCode	BeardsCode	Description	Area	%
KGM-02e	e24,48,49,Mi s2t11Gc	Grasslands, high grass savanna woodland; bloodwood, stringybark & woolybutt over upland tall grass & curly spinifex	592	27
KGM-02g	e48,49Mi s2,t11Gc	Grasslands, high grass savanna woodland; stringybark & woolybutt over upland tall grass & curly spinifex	1486	72
			2078	
Calm Estate Name : Highbury Nature Reserve Lat: 0 Long: 0 District:		PI Number: 26668		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	19	99
			19	
Calm Estate Name : Highbury State Forest Lat: 0 Long: 0 District:		PI Number: 52		

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	228	5
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	2366	58
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	39	1
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	1510	35
			4143	

Calm Estate Name : Highbury West Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 26669

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	52	100
			52	

Calm Estate Name : Hill River Nature Reserve
Lat: -30.30226 Long: 115.3143 District: Moora

PI Number: 36093

HopkinCode	BeardsCode	Description	Area	%
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	360	40
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	65	7
Mi-01j	e3,5,45Mi	Medium woodland; marri,wandoo, powderbark	81	8
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	1	0
Mi-08a	e18Mi	Medium woodland; river gum	90	9
SZ-03i	x9SzC	Shrublands; scrub-heath	39	3
Zc-02a/SZ-04a	dZc/hSzC	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	264	30
			901	

Calm Estate Name : Hillman Nature Reserve
Lat: -33.30017 Long: 116.7786 District: Katanning

PI Number: 16904

HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	23	9
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	230	91
			253	

Calm Estate Name : Hindmarsh Nature Reserve
Lat: -31.30906 Long: 117.1315 District: Merredin

PI Number: 14510

HopkinCode	BeardsCode	Description	Area	%
CM-01f	e6Mi mSp k3Ci	Succulent steppe; yorkgum woodland, sparse teatree scrub & samphire	10	6
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo,York gum, salmon gum, morrel & gimlet	78	44
SZ-03j	xSzC	Shrublands; scrub-heath	90	50
			177	

Calm Estate Name : Hines Hill Nature Reserve
Lat: -31.51733 Long: 118.0839 District: Merredin

PI Number: 23795

HopkinCode	BeardsCode	Description	Area	%
Cm-01c	eMr k1Ci	Succulent steppe; saltbush & scattered eucalypts	134	64
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	73	35

Appendix 2 continued

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Calm Estate Name : Hobart Road Nature Reserve Lat: -33.59359 Long: 118.0543 District: Katanning			PI Number: 34571	
HopkinCode	BeardsCode	Description	Area	%
Si-11d/Mi-05f	e15,27Si/e6,8Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; York gum & salmon gum	6	96
Zc-02a	dZc	Shrublands; dryandra heath	4	
			6	
Calm Estate Name : Hoddy Well Nature Reserve Lat: -31.647 Long: 116.486 District: Mundaring			PI Number: 35291	
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	5	100
			5	
Calm Estate Name : Holland Rocks Nature Reserve Lat: -33.35759 Long: 118.7447 District: Katanning			PI Number: 29022	
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	26	54
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	4	9
r	n/a	Bare areas; rock outcrops	17	36
			48	
Calm Estate Name : Hopkins Nature Reserve Lat: 0 Long: 0 District:			PI Number: 35134	
HopkinCode	BeardsCode	Description	Area	%
SZ-03j/Sc-04b	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	435	74
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	86	15
sl	n/a	Bare areas; salt lakes	66	11
			586	
Calm Estate Name : Horne Nature Reserve Lat: 0 Long: 0 District:			PI Number: 21827	
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	7	4
Mi-05c	e6Mi	Medium woodland; York gum	160	96
			167	
Calm Estate Name : Hotham River Nature Reserve Lat: 0 Long: 0 District:			PI Number: 8291	
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	82	54
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	10	7
Mi-05c	e6Mi	Medium woodland; York gum	60	39

Appendix 2 continued

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Calm Estate Name : Howatharra Nature Reserve
Lat: -28.54543 Long: 114.659 District: Geraldton

PI Number: 40002

HopkinCode	BeardsCode	Description	Area	%
SZ-03a	x2SzC	Shrublands; scrub-heath on coastal association	1	2
Sc-09f	mhSc	Shrublands; mixed thicket	67	91
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	5	6
			74	

Calm Estate Name : Hurdle Creek Nature Reserve
Lat: -33.10926 Long: 117.7161 District: Katanning

PI Number: 20070

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	184	65
Zc-02a	d2c	Shrublands; dryandra heath	96	34
			280	

Calm Estate Name : Ibis Lake Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 9629

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	9	35
SC-02b	mSc k3Ci	Succulent steppe; teatree thicket over samphire	2	6
sl	n/a	m5 Bare areas; salt lakes	16	59
			27	

Calm Estate Name : Indarra Spring Nature Reserve
Lat: -28.69788 Long: 115.3309 District: Geraldton

PI Number: 41885

HopkinCode	BeardsCode	Description	Area	%
SZ-03b	x3SzC	Shrublands; scrub-heath on sandplain	2532	95
Sc-01d/sz-03d	acSc/x3SzC	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats	126	5
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum	2	0
			2661	

Calm Estate Name : Israelite Bay Reserve
Lat: -33.63058 Long: 123.861 District: Esperance

PI Number: 36002

HopkinCode	BeardsCode	Description	Area	%
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	1	2
ds	n/a	Bare areas; drift sand	47	98
			48	

Calm Estate Name : Jackson Nature Reserve
Lat: -32.82285 Long: 119.7611 District: Katanning

PI Number: 34523

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	739	80
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	139	15

Appendix 2 continued

r	n/a	Bare areas; rock outcrops	48	5
			-----	925
Calm Estate Name : Jaloran Nature Reserve Lat: -33.13993 Long: 117.4727 District: Katanning		PI Number: 20834		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	25	39
Zc-02a	dZc	Shrublands; dryandra heath	38	60
			-----	63
Calm Estate Name : Jam Hill Nature Reserve Lat: -30.68562 Long: 115.819 District: Moora		PI Number: 25254		
HopkinCode	BeardsCode	Description	Area	%
Li-09c	b3Li	Low woodland; Banksia prionotes	113	61
Mi-01f	e3Mi	Medium woodland; marri	72	39
			-----	185
Calm Estate Name : Jandabup Nature Reserve Lat: 0 Long: 0 District:		PI Number: 7349		
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	62	25
Sc-08d	mSc	Shrublands; teatree thicket	21	9
ft	n/a	Bare areas; freshwater lakes	165	67
			-----	248
Calm Estate Name : Jebarjup Nature Reserve Lat: -34.28972 Long: 117.8448 District: Albany		PI Number: 26160		
HopkinCode	BeardsCode	Description	Area	%
Li-07a	e2Li	Low Woodland; jarrah	54	5
Li-13a	ml.i	Low woodland; paperbark, melaleuca	175	17
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	33	3
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	15	1
SZ-01e	enSZc	Shrublands; mallee-heath e	645	63
st	n/a	Bare areas; salt lakes	109	11
			-----	1031
Calm Estate Name : Jeffrey Lagoon Nature Reserve Lat: -33.27962 Long: 121.6856 District: Esperance		PI Number: 3042		
HopkinCode	BeardsCode	Description	Area	%
Si-11e	e15,32Si	Shrublands; mallee scrub Eucalyptus eremophila & Forrests marlock	118	100
			-----	118
Calm Estate Name : Jerdacuttup Lakes Nature Reserve Lat: -33.92307 Long: 120.3076 District: Albany		PI Number: 40156		
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	2975	38
SZ-03j	xSZc	Shrublands; scrub-heath	2920	37

Appendix 2 continued

Si-07a	mSi	Shrublands; teatree scrub	768	10
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	335	4
ds	n/a	Bare areas; drift sand	201	3
sl	n/a	Bare areas; salt lakes	530	6

				7729

Calm Estate Name : Jibberding Nature Reserve
Lat: -30.00135 Long: 116.8239 District: Merredin

PI Number: 9935

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	234	95
SCM-01a	e6Mi m5Sc k3ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	14	6

				249

Calm Estate Name : Jilbadji Nature Reserve
Lat: -31.67859 Long: 119.7904 District: Esperance

PI Number: 24049

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	5299	2
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	30156	14
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	22583	9
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	2646	1
Mi-06r	e8,9,34,39Mi	Medium woodland; salmon gum, morrel, gimlet & E. sheathiana	7716	3
Mi-06s	e8,10,11,34,39Mi	Medium woodland; salmon gum, redwood, merrit, gimlet & E. sheathiana	758	0
SZ-03j	xSzC	Shrublands; scrub-heath	25622	10
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	85504	41
Si-11a	e15Si	Shrublands; mallee scrub E. eremophilá	9209	5
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	6239	3
r	n/a	Bare areas; rock outcrops	626	0
sl	n/a	Bare areas; salt lakes	1822	0

				198180

Calm Estate Name : Jilbadji Rock Nature Reserve
Lat: -31.48037 Long: 119.2253 District: Merredin

PI Number: 20262

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	138	9
Mi-06r	e8,9,34,39Mi	Medium woodland; salmon gum, morrel, gimlet & E. sheathiana	113	8
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	706	49
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	143	10
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet		0
r	n/a	Bare areas; rock outcrops	340	23

				1441

Calm Estate Name : Jingalup Nature Reserve
Lat: -34.00609 Long: 117.0158 District: Katanning

PI Number: 17759

HopkinCode	BeardsCode	Description	Area	%
Mc-01c	e2,3,5Mc	Medium forest; jarrah-marri-wandoo	316	73
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	115	26

Appendix 2 continued

431

Calm Estate Name : Jingaring Nature Reserve Lat: 0 Long: 0 District:			PI Number: 13797
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	36 100
			36
Calm Estate Name : Jitarning Nature Reserve Lat: 0 Long: 0 District:			PI Number: 29988
HopkinCode	BeardsCode	Description	Area %
Mi-05c SZ-03j/Sc-04a	e6Mi xSzC/c3Sc	Medium woodland; York gum Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	12 60 8 40
			20
Calm Estate Name : Johns Well Nature Reserve Lat: -33.51547 Long: 117.6539 District: Katanning			PI Number: 24599
HopkinCode	BeardsCode	Description	Area %
Mi-05b Zc-02a	e5,6,8Mi dZc	Medium woodland; York gum, wandoo & salmon gum Shrublands; dryandra heath	258 66 131 33
			389
Calm Estate Name : Jouerdine Nature Reserve Lat: -30.62626 Long: 118.4056 District: Merredin			PI Number: 37034
HopkinCode	BeardsCode	Description	Area %
Mi-05j Sc-04a r	e8,34Mi c3Sc n/a	Medium woodland; salmon gum & gimlet Shrublands; Allocasuarina campestris thicket Bare areas; rock outcrops	72 6 940 84 107 10
			1119
Calm Estate Name : Julimar State Forest Lat: 0 Long: 0 District:			PI Number: 61
HopkinCode	BeardsCode	Description	Area %
Mi-01b Mi-01c Mi-01e	e2,3,5Mi e3,5Mi e2,5,45Mi	Medium woodland; jarrah & marri-wandoo Medium woodland; marri-wandoo Medium woodland; jarrah-wandoo-powderbark	16289 58 5106 13 7089 20
			28483
Calm Estate Name : Jura Nature Reserve Lat: 0 Long: 0 District:			PI Number: 27452
HopkinCode	BeardsCode	Description	Area %
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	41 100
			41

Appendix 2 continued

Calm Estate Name : Jurabi Coastal Park Lat: 0 Long: 0 District:	PI Number: 40729			
HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3ci	Succulent steppe; samphire	9	1
HX-04a	ansZr t1,2hi	Hummock grassland; shrub steppe; mixed acacia scrub & dwarf scrub with <i>T.riodina pungens</i> & <i>T. basedowii</i>	60	6
Hi-03b	e24Lb t1,7hi	Hummock grasslands, sparse tree-steppe; scattered bloodwood over <i>T. pungens</i> & <i>T. sp. indet. aff. angusta</i>	20	2
Hs-02d	a3Sr t1hi	Hummock grasslands, shrub-steppe; waterwood over <i>Triodia pungens</i>	958	91
			1047	
Calm Estate Name : Kadathinni Nature Reserve Lat: -29.52952 Long: 115.6754 District: Moora	PI Number: 32907			
HopkinCode	BeardsCode	Description	Area	%
St-01c	e5,45Li cdSc	Shrublands; casuarina & dryandra thicket with scattered wandoo and powderbark wandoo on laterite	27	100
			27	
Calm Estate Name : Kalbarri National Park Lat: -27.77324 Long: 114.2529 District: Geraldton	PI Number: 27004			
HopkinCode	BeardsCode	Description	Area	%
SL-01d	c5Li a19Si	Low woodland over scrub; <i>Allocasuarina heugelliana</i> over jam scrub	16595	9
SZ-02b	a23SzC	Shrublands; <i>Acacia rostellifera</i> scrub-heath	2404	0
SZ-03a	x2SzC	Shrublands; scrub-heath on coastal association	91612	50
SZ-03b	x3SzC	Shrublands; scrub-heath on sandplain	53315	29
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	876	0
Sc-02e	a23Sc	Shrublands; <i>Acacia rostellifera</i> thicket	5517	2
Sc-03b	amSc	Shrublands; acacia-melaleuca thickets m3 & a23	452	0
Si-09a	e6Si	Shrublands; York gum mallee scrub	2818	1
Sm-02e	e6,22Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum & red mallee	61	0
Sm-03a	c5e6Mr a19Si	Shrublands; jam scrub with scattered casuarina & York gum	824	0
Sr-02c	a21Sr	Shrublands; <i>Acacia ligulata</i> open scrub	70	0
Zc-01d	x1Zc	Shrublands; heath on coastal LST	1718	1
ds	n/a	Bare areas; drift sand	6201	3
			182462	
Calm Estate Name : Kalgan Plains Nature Reserve Lat: -34.55722 Long: 117.9315 District: Albany	PI Number: 25583			
HopkinCode	BeardsCode	Description	Area	%
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	11	22
SZ-01a	e2SzC	Shrublands; jarrah mallee-heath	40	78
			52	
Calm Estate Name : Kalgoorlie Arboretum Lat: 0 Long: 0 District:	PI Number: 23840			
HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	21	80

Appendix 2 continued

Si-11b	e15,22Si	Shrublands; mallee scrub Eucalyptus eremophila & red mallee	5	20
			-----	26
Calm Estate Name : Kambalda Nature Reserve Lat: 0 Long: 0 District:			PI Number: 33300	
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	1285	35
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	2366	65
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	6	0
			-----	3657
Calm Estate Name : Kambalda Timber Reserve Lat: 0 Long: 0 District:			PI Number: 199/25	
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	1659	55
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	1343	45
			-----	3002
Calm Estate Name : Kangaroo Hills Timber Reserve Lat: 0 Long: 0 District:			PI Number: 198/25	
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	422	6
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	210	3
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	5489	85
sl	n/a	Bare areas; salt lakes	373	6
			-----	6494
Calm Estate Name : Kangaroo Hills Timber Reserve Lat: 0 Long: 0 District:			PI Number: 19211	
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	276	9
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	183	6
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	1645	53
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	317	10
r	n/a	Bare areas; rock outcrops	140	4
sl	n/a	Bare areas; salt lakes	543	18
			-----	3105
Calm Estate Name : Karamarra Nature Reserve Lat: -30.61615 Long: 115.9252 District: Moora			PI Number: 7765	
HopkinCode	BeardsCode	Description	Area	%
Li-09c	b3Li	Low woodland; Banksia prionotes	34	76
Mi-11b	c6e6Mi	Medium woodland; York gum & Casuarina obesa	10	24

Appendix 2 continued

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Calm Estate Name : Karamindie Forest Lat: 0 Long: 0 District:	PI Number: 8			
<hr/>				
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	88	11
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	695	88
			782	

Calm Estate Name : Karijini National Park Lat: 0 Long: 0 District:	PI Number: 30082			
<hr/>				
HopkinCode	BeardsCode	Description	Area	%
Gc-02a	xGc	Short bunch grassland - savanna /grass plain (Pilbara)	2	0
Hi-07a	t2Hi	Hummock grasslands, grass steppe; hard spinifex Triodia basedowii	1797	0
Hi-08a	t3Hi	Hummock grasslands, grass steppe; hard spinifex Triodia wiseana	9330	1
Hi-02a	e16Lr t3Hi	Hummock grasslands, open low tree steppe; snappy gum over Triodia wiseana	86094	12
Hi-02a	e16Lr t3Hi	Hummock grasslands, open low tree-steppe; snappy gum over T. wiseana	155417	22
Hs-08c	a1,2Sr t1,2Hi	Hummock grasslands, shrub-steppe; mulga & kanji over Triodia pungens & T. basedowii	174831	28
Hs-08d	a1Sr t1,2Hi	Hummock grasslands, shrub-steppe; mulga over Triodia pungens & T. basedowii	23520	4
Hs-10e	e25Sr t2Hi	Hummock grasslands, shrub steppe; Eucalyptus gamophylla over hard spinifex Triodia basedowii	6756	0
Li-02a	a1Li	Low woodland; mulga	113868	14
Lp-01a	a1Lp	Sparse low woodland; mulga, discontinuous in scattered groups	21857	3
Si-01e	a1,11Si	Shrublands; mulga & snakewood scrub	3213	1
Si-01g	a1,17Si	Shrublands; mulga & minnieritchie scrub	29839	4
Sp-01a	a1,17Sp	Shrublands; mulga & minnieritchie scattered groups	1007	0
			627532	

Calm Estate Name : Karlgarin Nature Reserve Lat: 0 Long: 0 District:	PI Number: 10716			
<hr/>				
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	474	100
			474	

Calm Estate Name : Karloning Nature Reserve Lat: -30.6396 Long: 118.1683 District: Merredin	PI Number: 23835			
<hr/>				
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	56	86
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	9	14
			65	

Calm Estate Name : Karroun Hill Nature Reserve Lat: -29.9741 Long: 117.8384 District: Merredin	PI Number: 36936			
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HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Cm-01a HX-02a	e6Mr k1Ci e22Sr t2Hi xZp	Succulent steppe; saltbush & scattered york gum Hummock grasslands, mixed sandplain - open mallee over sparse dwarf shrubs with spinifex ; red mallee mallee & mixed sparse dwarf shrubs over T. basedowii	1123 164	0 0
Li-05b	aceLi	Low Woodland; mulga mixed with cypress pine, & york gum	13344	4
Li-05g	c(p)e6Li	Low woodland; York gum, and callitris (pine) (adjacent to e6pMLi)	60740	19
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)	77908	24
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	21056	6
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	43	0
Mi-05o	e8,9,34,35Mi	Medium woodland; salmon gum, morrel, gimlet & blackbutt	1566	1
Mi-06o	e34Mi	Medium woodland; gimlet	525	0
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	35020	9
Sc-02l *	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	76	0
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	13083	4
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	2153	0
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	56162	15
Si-01g	a1,17Si	Shrublands; mulga & minnieritchie scrub	112	0
Si-02m/HX-02a	a9Si/e22Sr.tHi xZp	Mosaic: Shrublands; bowgada scrub / Hummock grasslands, mixed sandplain - open red mallee mallee over sparse dwarf shrubs with spinifex	21388	7
r sl	n/a n/a	Bare areas; rock outcrops Bare areas; salt lakes	4551 1755 242	0 0 0
				311011

Calm Estate Name : Kathleen Nature Reserve
Lat: -33.02176 Long: 119.6507 District: Katanning

PI Number: 20218

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	0	
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1108	93
Si-13e/Mi-05g	eSi/e8,9Mi	Mosaic: Shrublands; mallee scrub, redwood / Medium woodland; salmon gum & morrel	85	7
			1193	

Calm Estate Name : Kau Rock Nature Reserve
Lat: -33.46156 Long: 122.3125 District: Esperance

PI Number: 32776

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	673	4
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	14953	96
			15626	

Calm Estate Name : Keanes Point Reserve
Lat: 0 Long: 0 District:

PI Number: 17060

HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	100	

Calm Estate Name : Kendall Road Nature Reserve
Lat: -33.43187 Long: 121.7609 District: Esperance

PI Number: 28846

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Si-07a	mSi	Shrublands; teatree scrub	58	100
			58	
Calm Estate Name : Kennedy Range National Park Lat: -24.59887 Long: 115.0548 District: Gascoyne		PI Number: 42474		
HopkinCode	BeardsCode	Description	Area	%
HX-05a	xSi t2ZHi	Hummock grassland; shrub steppe; mixed scrub, hard spinifex (<i>T. basedowii</i>) with dwarf shrubs	80303	56
Li-06c	a10,11Li	Low woodland; <i>A. victoriae</i> & snakewood	882	0
Si-02t	a10,11Si	Shrublands; snakewood & <i>A. victoria</i> scrub	49574	35
Si-02u	a11Si	Shrublands; snakewood scrub	13036	9
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	13	0
			143808	
Calm Estate Name : King Rock Nature Reserve Lat: -33.45952 Long: 117.4743 District: Katanning		PI Number: 9377		
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	51	100
			51	
Calm Estate Name : Kirwan Nature Reserve Lat: -30.59582 Long: 117.1696 District: Merredin		PI Number: 35217		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	69	100
			69	
Calm Estate Name : Kodj Kodjin Nature Reserve Lat: -31.45324 Long: 117.7787 District: Merredin		PI Number: 23138		
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	158	75
SZ-03j/Sc-04a	xSzC/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	52	25
			210	
Calm Estate Name : Kokerbin Nature Reserve Lat: 0 Long: 0 District:		PI Number: 11043		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	20	22
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegeliana	32	35
Sm-01f	e5Mr c3Sc	Shrublands; thicket with scattered wandoo	40	43
			91	
Calm Estate Name : Kondinin Lake Nature Reserve Lat: 0 Long: 0 District:		PI Number: 22519		

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	118	6
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	38	3
sl	n/a	Bare areas; salt lakes	1537	90
			1693	
Calm Estate Name : Kondinin Salt Marsh Nature Reserve		PI Number: 26692		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	31	1
SC-01a	e36,66Mp mSc k3Ci	Succulent steppe; yorrell & Kondinin blackbutt sparse woodland, teatree scrub & samphire	1676	74
Sc-08d	mSc	Shrublands; teatree thicket	24	1
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	522	24
			2252	
Calm Estate Name : Koolberrin Nature Reserve		PI Number: 16763		
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	17	100
			17	
Calm Estate Name : Kooljerrenup Nature Reserve		PI Number: 23756		
Lat: -32.76251 Long: 115.7227 District: Dwellingup				
HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	644	54
Mi-01f	e3Mi	Medium woodland; marri	569	47
			1213	
Calm Estate Name : Korbel Nature Reserve		PI Number: 41099		
Lat: -31.65696 Long: 118.1551 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	39	56
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	26	38
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	5	7
			70	
Calm Estate Name : Korrelocking Nature Reserve		PI Number: 689		
Lat: -31.17777 Long: 117.4546 District: Merredin				
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	263	100
			263	

Appendix 2 continued

Calm Estate Name : Kuender Nature Reserve Lat: -32.92501 Long: 118.5314 District: Katanning	PI Number: 29287
HopkinCode BeardsCode Description Area %	
Mi-05g e8,9Mi Medium woodland; salmon gum & morrel 142 37	
Si-13d/Mi-05d e8Mi Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum 246 63	
	388
Calm Estate Name : Kulikup Nature Reserve Lat: -33.82546 Long: 116.6667 District: Nannup/Kirup	PI Number: 18239
HopkinCode BeardsCode Description Area %	
Mi-01c e3,5Mi Medium woodland; marri-wandoo 63 100	
	63
Calm Estate Name : Kulin Road Nature Reserve Lat: 0 Long: 0 District:	PI Number: 14001
HopkinCode BeardsCode Description Area %	
Si-13d e10,27Si Shrublands; mallee scrub, redwood & black marlock 493 99	
	493
Calm Estate Name : Kulunilup Nature Reserve Lat: -34.33582 Long: 116.7866 District: Manjimup	PI Number: 26677
HopkinCode BeardsCode Description Area %	
Li-13a mLi Low woodland; paperbark, melaleuca 432 70	
Mi-01c e3,5Mi Medium woodland; marri-wandoo 185 29	
	617
Calm Estate Name : Kulyaling Nature Reserve Lat: 0 Long: 0 District:	PI Number: 39379
HopkinCode BeardsCode Description Area %	
Mi-05c e6Mi Medium woodland; York gum 17 100	
	17
Calm Estate Name : Kundip Nature Reserve Lat: -33.72052 Long: 120.2245 District: Albany	PI Number: 31128
HopkinCode BeardsCode Description Area %	
Si-13a e27Si Shrublands; mallee scrub, black marlock 1669 76	
Si-14a e28Si Shrublands; mallee scrub Eucalyptus nutans 501 23	
	2169
Calm Estate Name : Kununurra Arboretum Lat: -15.78172 Long: 128.7264 District: East Kimberley	PI Number: 27244
HopkinCode BeardsCode Description Area %	
KG-01a be17Lb ads2Gc Grasslands, high grass savanna sparse tree; 58 100	

Appendix 2 continued

bauhinia & coolabah over mitchell, blue & tall
upland grasses on black soil plain

58

Calm Estate Name : Kurrawang Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 35453

HopkinCode	BeardsCode	Description	Area	%
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	489	82
Si-11b	e15,22Si	Shrublands; mallee scrub Eucalyptus eremophila & red mallee	109	18
			598	

Calm Estate Name : Kwolyin Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 11038

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	37	11
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	281	83
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegeliana	25	7
			342	

Calm Estate Name : Kicornicup Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 32284

HopkinCode	BeardsCode	Description	Area	%
Mi-01h fl	e2,3,5,7Mi n/a	Medium woodland; jarrah & marri-wandoo-yate Bare areas; freshwater lakes	57 173	25 75
			230	

Calm Estate Name : Lacedeped Islands Nature Reserve
Lat: -16.87594 Long: 122.1524 District: West Kimberley

PI Number: 7279

HopkinCode	BeardsCode	Description	Area	%
ds	n/a	Bare areas; drift sand	84	100
			84	

Calm Estate Name : Lake Ace Nature Reserve
Lat: -32.99469 Long: 119.7922 District: Katanning

PI Number: 34522

HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	388	17
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	559	23
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	1338	57
sl	n/a	Bare areas; salt lakes	94	4
			2380	

Calm Estate Name : Lake Biddy Nature Reserve
Lat: -33.01838 Long: 118.95 District: Katanning

PI Number: 17617

HopkinCode	BeardsCode	Description	Area	%
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Appendix 2 continued

Mi-05g sl	e8,9Mi n/a	Medium woodland; salmon gum & morrel Bare areas; salt lakes	42 6	86 13
				49

Calm Estate Name : Lake Bryde Nature Reserve
Lat: -33.36689 Long: 118.9088 District: Katanning PI Number: 29020

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	84	5
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	584	35
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	879	52
r	n/a	Bare areas; rock outcrops	109	6
sl	n/a	Bare areas; salt lakes	26	2
			1683	

Calm Estate Name : Lake Campion Nature Reserve
Lat: -31.12802 Long: 118.418 District: Merredin PI Number: 24789

HopkinCode	BeardsCode	Description	Area	%
Cm-01d	e8Mr mSp k3Ci	Succulent steppe; samphire, scattered salmon gum & sparse teatree scrub	4666	41
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	1420	12
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	1033	7
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	99	1
Sc-02j	aSc	Shrublands; Acacia neurophylla & other acacia thicket	17	0
sl	n/a	Bare areas; salt lakes	3637	34
			10872	

Calm Estate Name : Lake Cronin Nature Reserve
Lat: 0 Long: 0 District: PI Number: 36526

HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	1007	98
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	15	2
sl	n/a	Bare areas; salt lakes	7	1
			1029	

Calm Estate Name : Lake Dumbleyung Nature Reserve
Lat: -33.38053 Long: 117.6436 District: Katanning PI Number: 5999

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	90	76
sl	n/a	Bare areas; salt lakes	27	23
			117	

Calm Estate Name : Lake Eyrie Nature Reserve
Lat: 0 Long: 0 District: PI Number: 5892

HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	28	100
			28	

Appendix 2 continued

Calm Estate Name : Lake Gounter Nature Reserve Lat: 0 Long: 0 District:			PI Number: 21253	
HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	635	19
Si-07a	mSi	Shrublands; teatree scrub	1515	46
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	356	11
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	470	12
r	n/a	Bare areas; rock outcrops	162	5
st	n/a	Bare areas; salt lakes	176	5
			3315	
Calm Estate Name : Lake Hinds Nature Reserve Lat: -30.78 Long: 116.5598 District: Merredin			PI Number: 16305	
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	127	10
SC-02a	m5Sc k3Ci	Succulent steppe; Melaleuca thyoides thicket over samphire	260	21
st	n/a	Bare areas; salt lakes	855	69
			1242	
Calm Estate Name : Lake Hurlstone Nature Reserve Lat: 0 Long: 0 District:			PI Number: 27837	
HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	1303	30
r	n/a	Bare areas; rock outcrops	2640	61
st	n/a	Bare areas; salt lakes	442	10
			4385	
Calm Estate Name : Lake Hurlstone Nature Reserve Lat: 0 Long: 0 District:			PI Number: 24417	
HopkinCode	BeardsCode	Description	Area	%
r	n/a	Bare areas; rock outcrops	401	87
st	n/a	Bare areas; salt lakes	60	13
			460	
Calm Estate Name : Lake Joondalup Nature Reserve Lat: 0 Long: 0 District:			PI Number: 21708	
HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	30	7
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	42	9
Sc-08d	mSc	Shrublands; teatree thicket	46	10
fl	n/a	Bare areas; freshwater lakes	336	74
			454	
Calm Estate Name : Lake King Nature Reserve Lat: -32.96868 Long: 119.5256 District: Katanning			PI Number: 39422	
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	40	0

Appendix 2 continued

Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	3111	9
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	513	1
SZ-03j	xSzC	Shrublands; scrub-heath	658	1
Si-11a	e15Si	Shrublands; mallee scrub <i>E. eremophila</i>	13822	36
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	2105	5
Si-13e/Mi-05g	eSi/e8,9Mi	Mosaic: Shrublands; mallee scrub, redwood / Medium woodland; salmon gum & morrel	1807	4
cl/mnd	n/a	Bare areas; clatpans, mudflats	207	0
r	n/a	Bare areas; rock outcrops	2839	6
sl	n/a	Bare areas; salt lakes	14202	34
				39302

Calm Estate Name : Lake Liddelow Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 29810

HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	59	5
SZ-03j	xSzC	Shrublands; scrub-heath	129	12
r	n/a	Bare areas; rock outcrops	672	62
sl	n/a	Bare areas; salt lakes	226	21
			1086	

Calm Estate Name : Lake Logue Nature Reserve
 Lat: -29.85273 Long: 115.1653 District: Moora

PI Number: 29073

HopkinCode	BeardsCode	Description	Area	%
SZ-03d	x5SzC	Shrublands; scrub-heath on deep sandy flats	0	0
SZ-03f/Li-07f	x6SzC/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; iltyarrie	4279	87
Sl-01a	c6Lrm5Sc	Shrublands; <i>Melaleuca thyoides</i> thicket with scattered casuarina	219	4
Sl-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	57	1
fl	n/a	Bare areas; freshwater lakes	373	8
			4928	

Calm Estate Name : Lake Magenta Nature Reserve
 Lat: -33.51991 Long: 119.0622 District: Albany

PI Number: 25113

HopkinCode	BeardsCode	Description	Area	%
KGM-02b	e24,48Mi ps2Gc	Grasslands, high grass savanna woodland; bloodwood & stringybark over upland tall grass & curly spinifex	4772	4
Mi-05d	e8Mi	Medium woodland; salmon gum	739	0
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	106	0
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	2324	2
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	5671	4
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	697	0
SZ-03j	xSzC	Shrublands; scrub-heath	2457	2
SZ-03j/SZ-01b	xSzC/e26 SzC	Mosaic: Shrublands; scrub-heath / Shrublands; tallerack mallee-heath	3553	3
Si-11a	e15Si	Shrublands; mallee scrub <i>E. eremophila</i>	76320	68
sl	n/a	Bare areas; salt lakes	11673	10
			108311	

Calm Estate Name : Lake McLarty Nature Reserve
 Lat: -32.70603 Long: 115.7131 District: Dwellingup

PI Number: 39404

HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	127	69
			58	31

Appendix 2 continued

185

Calm Estate Name : Lake Mealup Nature Reserve PI Number: 6627
 Lat: -32.68339 Long: 115.7108 District: Dwellingup

HopkinCode	BeardsCode	Description	Area	%
Mi-01f fl	e3Mi n/a	Medium woodland; marri Bare areas; freshwater lakes	30 7	80 20
				38

Calm Estate Name : Lake Mears Nature Reserve PI Number: 12398
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c sl	e6Mi n/a	Medium woodland; York gum Bare areas; salt lakes	36 222	14 86
				258

Calm Estate Name : Lake Mortijinup Nature Reserve PI Number: 35557
 Lat: -33.80717 Long: 121.6473 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	489	100
				489

Calm Estate Name : Lake Ninan Nature Reserve PI Number: 27026
 Lat: -30.95484 Long: 116.6422 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05f SC-02a	e6,8Mi m5Sc k3Ci	Medium woodland; York gum & salmon gum Succulent steppe; Melaleuca thyoides thicket over samphire	8 42	3 16
SZ-03h sl	x8Sz n/a	Shrublands; scrub-heath on sandplain Bare areas; salt lakes	44 159	17 63
				253

Calm Estate Name : Lake Pleasant View Nature Reserve PI Number: 15107
 Lat: -34.82708 Long: 118.1774 District: Albany

HopkinCode	BeardsCode	Description	Area	%
Gc-01a Lc-06c	xGc eclc	Sedgeland; reed swamps, occasionally with heath Low forest; jarrah & casuarina	167 77	67 32
				244

Calm Estate Name : Lake Powell Nature Reserve PI Number: 25809
 Lat: -35.01888 Long: 117.7317 District: Albany

HopkinCode	BeardsCode	Description	Area	%
Gc-01a fl	xGc n/a	Sedgeland; reed swamps, occasionally with heath Bare areas; freshwater lakes	93 106	47 53
				199

Appendix 2 continued

Calm Estate Name : Lake Shaster Nature Reserve Lat: -33.85826 Long: 120.7902 District: Esperance		PI Number: 32339		
HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	1758	17
SZ-03j	xSZc	Shrublands; scrub-heath	2911	31
Si-07a	mSi	Shrublands; teatree scrub	739	8
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	2504	25
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	417	4
ds	n/a	Bare areas; drift sand	127	1
sl	n/a	Bare areas; salt lakes	1204	12
			9660	
Calm Estate Name : Lake Varley Nature Reserve Lat: 0 Long: 0 District:		PI Number: 27928		
HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	555	25
r	n/a	Bare areas; rock outcrops	1104	49
sl	n/a	Bare areas; salt lakes	584	26
			2242	
Calm Estate Name : Lake Wannamal Nature Reserve Lat: 0 Long: 0 District:		PI Number: 9838		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	156	97
Sc-08d	mSc	Shrublands; teatree thicket	4	2
			160	
Calm Estate Name : Lake Warden Nature Reserve Lat: -33.82884 Long: 121.8567 District: Esperance		PI Number: 32257		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSZc	Shrublands; scrub-heath	101	14
st	n/a	Bare areas; salt lakes	596	85
			696	
Calm Estate Name : Lakeland Nature Reserve Lat: -33.30592 Long: 118.7589 District: Katanning		PI Number: 29023		
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	1931	61
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1097	36
st	n/a	Bare areas; salt lakes	90	1
			3118	
Calm Estate Name : Lakeside Timber Reserve Lat: 0 Long: 0 District:		PI Number: 19214		
HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	3597	100
			3597	

Appendix 2 continued

Calm Estate Name : Landscape Hill Nature Reserve PI Number: 39174
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01k	e5Mi	Medium woodland; wandoo	72	93
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	6	7
			77	

Calm Estate Name : Lesueur National Park PI Number: 42032
 Lat: -30.13586 Long: 115.1141 District: Moora

HopkinCode	BeardsCode	Description	Area	%
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	804	3
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	366	1
Mi-01j/Zc-02a	e3,5,45Mi/dZc	Mosaic: Medium woodland; marri, wandoo, powderbark / Shrublands; dryandra heath	5267	19
SZ-03i	x9SZc	Shrublands; scrub-heath	3622	14
Sl-01a	c6Lrm5Sc	Shrublands; Melaleuca thyoides thicket with scattered casuarina	236	1
Sl-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	4865	18
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	1212	4
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	8321	31
ds	n/a	Bare areas; drift sand	220	1
st	n/a	Bare areas; salt lakes	2386	8
			27299	

Calm Estate Name : Lipert PI Number: 29259
 Lat: -29.98417 Long: 114.9641 District: Moora

HopkinCode	BeardsCode	Description	Area	%
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	4	100
			4	

Calm Estate Name : Locke Nature Reserve PI Number: 41972
 Lat: -33.66573 Long: 115.2341 District: Busselton

HopkinCode	BeardsCode	Description	Area	%
Li-08a	agLi	Low woodland; Agonis flexuosa	48	24
Sc-02g	a31Sc	Shrublands; Acacia decipiens	141	76
			189	

Calm Estate Name : Lockhart Nature Reserve PI Number: 28759
 Lat: -33.25554 Long: 119.0374 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	190	48
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	117	29
sl	n/a	Bare areas; salt lakes	91	23
			398	

Calm Estate Name : Lol Gray State Forest PI Number: 51

Appendix 2 continued

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	1540	2
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	925	4
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	12875	52
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	1400	3
Mi-05c	e6Mi	Medium woodland; York gum	1997	5
Sm-01c	e6Mr m5Sc	Shrublands; Melaleuca thyoides thicket with scattered York gum	1478	4
				20214

Calm Estate Name : Long Creek Nature Reserve
Lat: -33.57746 Long: 119.7573 District: Albany

PI Number: 31881

HopkinCode	BeardsCode	Description	Area	%
Si-13a/SZ-01b	e27Si/e26SzC	Mosaic: Shrublands; mallee scrub, black marlock / Shrublands; tallerack mallee-heath	323	100

Calm Estate Name : Long Pool Nature Reserve
Lat: -30.57262 Long: 116.1792 District: Moora

PI Number: 828

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	67	100

Calm Estate Name : Ludlow State Forest
Lat: 0 Long: 0 District:

PI Number: 2

HopkinCode	BeardsCode	Description	Area	%
Ti-01a	e4Ti	Tall woodland; tuart	903	93
Zc-01e	xZc	Shrublands; mixed heath	17	2
			920	

Calm Estate Name : Mailalup Nature Reserve
Lat: -34.37076 Long: 118.4809 District: Albany

PI Number: 26264

HopkinCode	BeardsCode	Description	Area	%
Mi-09a	e7Mi	Medium woodland; yate	10	1
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	449	57
Si-13b	e27,67Si	Shrublands; mallee scrub, black marlock & Eucalyptus decipiens	229	29
sl	n/a	Bare areas; salt lakes	89	11
			777	

Calm Estate Name : Majestic Timber Reserve
Lat: 0 Long: 0 District:

PI Number: 195/25

HopkinCode	BeardsCode	Description	Area	%
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	2236	100

Appendix 2 continued

Calm Estate Name : Mallee Plain Nature Reserve
 Lat: -33.04636 Long: 117.7223 District: Katanning PI Number: 19084

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	37	10
Zc-02a	dzc	Shrublands; dryandra heath	340	90
			377	

Calm Estate Name : Malyalling Nature Reserve
 Lat: 0 Long: 0 District: PI Number: 9480

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	47	100
			47	

Calm Estate Name : Manaling Nature Reserve
 Lat: -30.40603 Long: 115.956 District: Moora PI Number: 28674

HopkinCode	BeardsCode	Description	Area	%
Li-09c	b3Li	Low woodland; Banksia prionotes	215	99
Sm-01c	e6Mr mSc	Shrublands; teatree thicket with scattered York gum m5	3	1
			218	

Calm Estate Name : Mangkili Claypan Nature Reserve
 Lat: 0 Long: 0 District: PI Number: 34604

HopkinCode	BeardsCode	Description	Area	%
GM-01a	e17Mi xGc	Sedgeland; sedges with medium woodland; sedges with coolabah over various sedges	594	16
Li-02a	a1Li	Low woodland; mulga	2732	76
sl	n/a	Bare areas; salt lakes	281	8
			3607	

Calm Estate Name : Manmanning Dam Nature Reserve
 Lat: -30.82905 Long: 117.0913 District: Merredin PI Number: 20571

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	377	100
			377	

Calm Estate Name : Manmanning Nature Reserve
 Lat: -30.90335 Long: 117.09 District: Merredin PI Number: 23156

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	369	100
			369	

Calm Estate Name : Manning Road
 Lat: 0 Long: 0 District: PI Number: 14199

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	47	100

Appendix 2 continued

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Calm Estate Name : Maragoonda Nature Reserve
 Lat: -33.67612 Long: 117.3064 District: Katanning PI Number: 9920

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	1	
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	2	17
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	11	82
			13	

Calm Estate Name : Marbelup Nature Reserve
 Lat: -34.99181 Long: 117.7277 District: Albany PI Number: 24891

HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	7	7
L1-12d	e2,65 c7Lc	Low woodland; jarrah, E. decipiens & Allocasuarina fraseriana	93	93
			100	

Calm Estate Name : Marchagee Nature Reserve
 Lat: -29.95691 Long: 116.0793 District: Moora PI Number: 23601

HopkinCode	BeardsCode	Description	Area	%
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & salsphire	73	12
SZ-03g	x7SzC	Shrublands; scrub-heath on lateritic sandhills	5	1
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	504	88
			582	

Calm Estate Name : Marindo Nature Reserve
 Lat: -30.43646 Long: 117.7661 District: Merredin PI Number: 20986

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	66	95
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	4	5
			70	

Calm Estate Name : Marmion Marine Park
 Lat: 0 Long: 0 District: PI Number: 1

HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	8	19
Zc-01a/Sc-02h	a26m4Zc/a23,32Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Acacia cyclops thicket	22	59
ds	n/a	Bare areas; drift sand	8	22
			38	

Calm Estate Name : Martinjinni Nature Reserve
 Lat: 0 Long: 0 District: Moora PI Number: 16471

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	82	30
SZ-03j	xSzC	Shrublands; scrub-heath	184	69

			266	

Calm Estate Name : Martinup Nature Reserve
 Lat: -33.53527 Long: 117.1709 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Sm-01a	e5,7Mr mSc	Shrublands; teatree thicket with scattered wandoo & yate	34	37
sl	n/a	Bare areas; salt lakes	57	63
			91	

Calm Estate Name : Matilda Bay Reserve
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	14	100
			14	

Calm Estate Name : Maublarling Nature Reserve
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	53	100
			53	

Calm Estate Name : Maughan Nature Reserve
 Lat: -31.60616 Long: 118.3577 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	801	98
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	12	2
			813	

Calm Estate Name : McDougall Nature Reserve
 Lat: -33.45248 Long: 118.1286 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	335	100
			335	

Calm Estate Name : Mcglinn Nature Reserve
 Lat: -32.95092 Long: 118.7244 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	233	79
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	4	1

Appendix 2 continued

r	n/a	Bare areas; rock outcrops	58	20
			-----	295
Calm Estate Name : McLarty Nature Reserve Lat: -32.69023 Long: 115.6968 District: Dwellingup		PI Number: 24739		
HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	27	54
Mi-02a	e4Mi	Medium woodland; tuart	6	13
fl	n/a	Bare areas; freshwater lakes	16	32
			1	1
			-----	51
Calm Estate Name : Mealup Point Nature Reserve Lat: -32.68043 Long: 115.686 District: Dwellingup		PI Number: 2738		
HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	30	100
			30	
Calm Estate Name : Meenaar Nature Reserve Lat: -31.6355 Long: 116.8945 District: Mundaring		PI Number: 34772		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	60	100
			60	
Calm Estate Name : Meenar Nature Reserve Lat: -31.64084 Long: 116.8922 District: Mundaring		PI Number: 29977		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	8	6
SZ-03j	xSzC	Shrublands; scrub-heath	126	96
			134	
Calm Estate Name : Merewana Nature Reserve Lat: -30.31591 Long: 116.2412 District: Moora		PI Number: 2737		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f/Sc-08c	e6,8Mi/m5Sc	Mosaic: Medium woodland; merrit & red mallee / Shrublands; Melaleuca cardiophylla thicket	11	28
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	1	2
SZ-03j	xSzC	Shrublands; scrub-heath	29	70
			41	
Calm Estate Name : Merredin Nature Reserve Lat: -31.52877 Long: 118.2314 District: Merredin		PI Number: 19476		
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	55	61
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	36	39

Appendix 2 continued

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Calm Estate Name : Mettabinup Nature Reserve Lat: -34.00181 Long: 116.8433 District: Katanning			PI Number: 15388	
HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	110	66
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	55	33
			165	
Calm Estate Name : Mettler Lake Nature Reserve Lat: -34.5748 Long: 118.6016 District: Albany			PI Number: 26894	
HopkinCode	BeardsCode	Description	Area	%
SZ-01a	e2SZc	Shrublands; jarrah mallee-heath	338	80
fl	n/a	Bare areas; freshwater lakes	87	20
			424	
Calm Estate Name : Millstream-Chichester National Park Lat: 0 Long: 0 District:			PI Number: 24392	
HopkinCode	BeardsCode	Description	Area	%
Gc-02a/Hi-06a	xGc/t1Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex <i>Triodia pungens</i>	12610	5
Gc-02a/Hi-08a	xGc/t3Hi	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>	719	0
Gc-02a/Li-06a	xGc/a2Li	Mosaic: Short bunch grassland - savanna /grass plain (Pilbara) / Low woodland; kanji	21412	8
Hi-06c	t1,3Hi	Hummock grasslands, grass steppe; soft & hard spinifex <i>Triodia pungens</i> & <i>T. wiseana</i>	4928	1
HL-02a/Hs-02a	e16Lr t3Hi/a2Sr t1Hi	Mosaic: Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> / Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i>	105329	45
HL-04a	e16,24Lr t1,3Hi	Hummock grasslands, open low tree-steppe; snappy gum & bloodwood over <i>T. pungens</i> & <i>T. wiseana</i>	15102	5
Hs-02a	a2Sr t1Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia pungens</i> (+ <i>grevillea</i>)	10787	5
Hs-03d	a11Sr t2Hi	Hummock grasslands, shrub-steppe; snakewood over <i>Triodia basedowii</i>	657	0
Hs-05a	a2Sr t1,3Hi	Hummock grasslands, shrub-steppe; kanji over <i>T. pungens</i> & <i>T. wiseana</i>	62468	24
Hs-06b	a2Sr t3Hi	Hummock grasslands, shrub-steppe; kanji over <i>Triodia wiseana</i>	1299	0
Mi-07e	e17,18Mi	Medium woodland; coolabah & river gum	1071	0
			236383	
Calm Estate Name : Milyu Nature Reserve Lat: 0 Long: 0 District:			PI Number: 33803	
HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	1	100
			1	
Calm Estate Name : Minganew Nature Reserve Lat: -29.18141 Long: 115.4202 District: Geraldton			PI Number: 2323	
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Sm-02d	e6Mr a19,23Si	Shrublands; jam and A. rostellifera or hakea scrub with scattered York gum	356	100
			356	

Calm Estate Name : Mininup Nature Reserve
 Lat: -34.09593 Long: 116.8276 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	57	37
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	98	63
			155	

Calm Estate Name : Minniging Nature Reserve
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	53	100
			53	

Calm Estate Name : Minyulo Nature Reserve
 Lat: -30.64895 Long: 115.573 District: Moora

HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	26	13
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	174	87
			199	

Calm Estate Name : Mockerdungulling Nature Reserve
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	33	100
			33	

Calm Estate Name : Modong Nature Reserve
 Lat: -32.22836 Long: 115.8962 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	158	100
			158	

Calm Estate Name : Mogumber Nature Reserve
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	41	100
			41	

Calm Estate Name : Mokami Nature Reserve

PI Number: 23686

Appendix 2 continued

Lat:	0 Long:	0 District:			
HopkinCode	BeardsCode	Description	Area	%	
Mi-05c SC-01b	e6Mi e6,66Mp mSc k3Ci	Medium woodland; York gum Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	15 462	3 97	
				477	
Calm Estate Name : Mokine Nature Reserve Lat: -31.78451 Long: 116.5819 District: Mundaring		PI Number: 31211			
HopkinCode	BeardsCode	Description	Area	%	
Mi-01c Mi-05c	e3,5Mi e6Mi	Medium woodland; marri-wandoo Medium woodland; York gum	25 267	9 91	
				292	
Calm Estate Name : Mollerin Nature Reserve Lat: -30.52285 Long: 117.5745 District: Merredin		PI Number: 14429			
HopkinCode	BeardsCode	Description	Area	%	
Mi-05f SCm-01a SCm-01a Sc-05a sl	e6,8Mi e6Mr m5Sc k3Ci e6Mr m5Sc k3Ci ecSc n/a	Medium woodland; York gum & salmon gum Succulent steppe; york gum open woodland, Melaleuca thyioides thicket & samphire Succulent steppes; york gum open woodland, Melaleuca thyioides thicket & samphire Shrublands; mallee & casuarina thicket Bare areas; salt lakes	541 8 1255 123 4601	8 0 19 2 70	
				6528	
Calm Estate Name : Mongelup Nature Reserve Lat: -34.16496 Long: 117.015 District: Katanning		PI Number: 9307			
HopkinCode	BeardsCode	Description	Area	%	
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	38	100	
				38	
Calm Estate Name : Monkey Mia Reserve Lat: -25.79768 Long: 113.7046 District: Gascoyne		PI Number: 1686			
HopkinCode	BeardsCode	Description	Area	%	
Ci-03a Si-02w	k2Ci a9Si	Succulent steppe; bluebush Shrublands; bowgada & other acacia scrub	29 476	6 94	
				505	
Calm Estate Name : Montague State Forest Lat: 0 Long: 0 District:		PI Number: 53			
HopkinCode	BeardsCode	Description	Area	%	
Mi-04b Mi-05c	e64,45Mi e6Mi	Medium woodland; powderbark & mallet Medium woodland; York gum	1832 2261	41 52	
				4093	
Calm Estate Name : Moojebing Nature Reserve Lat: -33.60595 Long: 117.5007 District: Katanning		PI Number: 32204			

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	44	101
			44	
Calm Estate Name : Moomagul Nature Reserve Lat: 0 Long: 0 District:		PI Number: 30563		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	144	76
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	47	24
			191	
Calm Estate Name : Moondyne Nature Reserve Lat: -31.56712 Long: 116.2165 District: Mundaring		PI Number: 30191		
HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	1408	72
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	534	28
			1942	
Calm Estate Name : Moonijin Nature Reserve Lat: 0 Long: 0 District: Merredin		PI Number: 9228		
HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	59	100
			59	
Calm Estate Name : Mooranoppin Nature Reserve Lat: -31.59503 Long: 117.773 District: Merredin		PI Number: 21153		
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	42	100
			42	
Calm Estate Name : Moore River National Park Lat: 0 Long: 0 District:		PI Number: 28462		
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	15763	90
SZ-03j/Zc-02a	xSzC/dZc	Mosaic: Shrublands; scrub-heath / Shrublands; dryandra heath	53	0
Sc-08d	mSc	Shrublands; teatree thicket	1561	7
fl	n/a	Bare areas; freshwater lakes	37	0
			17413	
Calm Estate Name : Moornaming Nature Reserve Lat: -33.56921 Long: 118.0758 District: Katanning		PI Number: 38553		
HopkinCode	BeardsCode	Description	Area	%
Mi-09a	e7Mi	Medium woodland; yate	45	58
Zc-02a	dZc	Shrublands; dryandra heath	33	43

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Calm Estate Name : Moorumbine Nature Reserve Lat: 0 Long: 0 District:			PI Number: 6798
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	19 100
			19
Calm Estate Name : Morangarel Nature Reserve Lat: -33.30089 Long: 115.7056 District: Harvey/Collie			PI Number: 38393
HopkinCode	BeardsCode	Description	Area %
Ti-01a	e4Ti	Tall woodland; tuart	5 100
			5
Calm Estate Name : Mordette Nature Reserve Lat: -32.8636 Long: 118.5377 District: Katanning			PI Number: 27887
HopkinCode	BeardsCode	Description	Area %
Mi-05g	e8,9Mi	Medium woodland; salmon gum & morrel	281 72
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	108 28
sl	n/a	Bare areas; salt lakes	3 1
			393
Calm Estate Name : Mortlock Nature Reserve Lat: -31.68711 Long: 116.9101 District: Mundaring			PI Number: 5644
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	81 100
			81
Calm Estate Name : Morton Nature Reserve Lat: 0 Long: 0 District:			PI Number: 31360
HopkinCode	BeardsCode	Description	Area %
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	42 38
S2-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	64 59
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	3 3
			110
Calm Estate Name : Moulien Nature Reserve Lat: -31.83526 Long: 117.5374 District: Merredin			PI Number: 28289
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	5 3
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	149 97
			154

Appendix 2 continued

Calm Estate Name : Mount Augustus National Park
 Lat: -24.30775 Long: 116.8328 District: Gascoyne

PI Number: 41051

HopkinCode	BeardsCode	Description	Area	%
Li-02a	a1Li	Low woodland; mulga	89	1
Li-04a	a1,9Li	Low woodland; mulga & bowgada	3329	36
Lp-01a	a1Lp	Sparse low woodland; mulga, discontinuous in scattered groups	16	0
Lr-02b	a9Lr	Open low woodland; bowgada	5830	63
			9264	

Calm Estate Name : Mount Burdett Nature Reserve
 Lat: -33.46162 Long: 122.1336 District: Esperance

PI Number: 27384

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26S2c	Shrublands; tallerack mallee-heath	316	53
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	287	48
			602	

Calm Estate Name : Mount Byroomanning Nature Reserve
 Lat: -31.37568 Long: 116.1205 District: Mundaring

PI Number: 32807

HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	8	4
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	176	95
			184	

Calm Estate Name : Mount Caroline Nature Reserve
 Lat: -31.79303 Long: 117.6326 District: Merredin

PI Number: 11047

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	130	36
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegelliana	228	64
			358	

Calm Estate Name : Mount Hampton Nature Reserve
 Lat: -31.77056 Long: 119.0709 District: Merredin

PI Number: 20526

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	667	27
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	1405	56
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	180	7
r	n/a	Bare areas; rock outcrops	235	9
			2487	

Calm Estate Name : Mount Hart
 Lat: 0 Long: 0 District:

PI Number:

HopkinCode	BeardsCode	Description	Area	%
HL-04i	e16,54Lr t1,11Hi	Hummock grasslands, open low tree-steppe; snappy gum & Mt House box over soft spinifex on shale	4339	1

Appendix 2 continued

KGM-01b	e50,51Mi s1,2Gc	plains Grasslands, high grass savanna woodland; grey box & cabbage gum over white grass	71998	17
KGM-01d	e50,51Mi xGc	Grasslands, high grass savanna woodland; grey box & cabbage gum over mixed/white grass on basalt and dolerite	49626	12
KGM-02b	e24,48Mi ps2Gc	Grasslands, high grass savanna woodland; bloodwood & stringybark over upland tall grass & curly spinifex	22186	6
kG-02d	a27Lb aGc	Grasslands, tall bunch grass savanna sparse low tree; <i>Acacia suberosa</i> over mitchell grass on black soil	442	0
kG-02e	a27bLb cdGc	Grasslands, tall bunch grass savanna sparse low tree; <i>Acacia suberosa</i> & <i>Bauhinia</i> over ribbon/blue grass on black soil	61	0
KG-03b	aGc adGc	Grasslands, tall bunch grass savanna, mitchell & mitchell/blue grass	1380	0
KGM-01b	e50,51Mi cdGc	Grasslands, tall bunch grass savanna woodland, grey box & cabbage gum over ribbon & blue grass	1515	0
kGl-02b	b3Lr cdGc	Grasslands, tall bunch grass savanna low tree; baobabs, <i>Bauhinia</i> & beefwood over ribbon & blue grass	419	0
kgM-01a	e16,24Mi t11Gc	Grasslands, curly spinifex, tree savanna woodland; snappy gum & bloodwood over curly spinifex on LST plateau	71481	18
kgl-01a	e16Lr t11Gc	Grasslands, curly spinifex, low tree savanna; snappy gum over curly spinifex	10780	3
kgl-01b	e16,24Lr t11Gc	Grasslands, curly spinifex, low tree savanna; snappy gum & bloodwood (<i>E.dichromophloia</i>) over curly spinifex	80590	18
kgl-01c	e16,58Lr p3Gc	Grasslands, curly spinifex, low tree savanna; snappy gum & <i>E. perfoliata</i> over <i>Plectrachne pungens</i>	815	0
kgl-01c/ kg-01a	e16,58Lrp3Gc/aLbp4Gi	Mosaic: Grasslands, curly spinifex, low tree savanna; snappy gum & <i>E. perfoliata</i> over <i>Plectrachne pungens</i> /Grasslands; sparse low tree savanna; <i>Andersonia gregorii</i> over <i>Plectrachne bynoei</i>	72479	18

			388110	

Calm Estate Name : Mount Manning Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 36208

HopkinCode	BeardsCode	Description	Area	%
Cs-01a	a1Sr k1Ci	Succulent steppe; saltbush with scattered mulga shrubs	7813	5
Cs-02i HS-01a	anSr k1Ci eSi t8Hi	Succulent steppe; saltbush, with scattered wattles Hummock grasslands, mallee steppe; red mallee over spinifex <i>Triodia scariosa</i>	2535 17060	2 11
HX-02a	e22Sr t2Hi xZp	Hummock grasslands, mixed sandplain - open mallee over sparse dwarf shrubs with spinifex ; red mallee mallee & mixed sparse dwarf shrubs over <i>T. basedowii</i>	79	0
Hs-03e	anSr t2Hi	Hummock grasslands, shrub-steppe; acacia species over <i>Triodia basedowii</i> on sand dunes	249	0
Li-03a Li-05b	a1Li aceLi	Low woodland; mulga between sandridges Low woodland; mulga mixed with cypress pine, & york gum	327 4871	0 3
Li-11a Mi-05f Mi-05j Mi-05m Mi-05p	c2Li e6,8Mi e8,34Mi e6,8,34Mi e6,8,9,34,35Mi	Low woodland; <i>Allocasuarina cristata</i> Medium woodland; York gum & salmon gum Medium woodland; salmon gum & gimlet Medium woodland; York gum, salmon gum & gimlet Medium woodland; wandoo, salmon gum, morrel, gimlet & blackbutt	820 7001 348 9135 13770	0 4 0 6 9
Mi-11c	e6,8,c2Mi	Medium woodland; York gum, salmon gum & <i>Allocasuarina cristata</i>	15789	11
SL-01c	c2Li a9Si	Low woodland over scrub; <i>Allocasuarina cristata</i> over bowgada scrub	809	0
Sc-02a	a12Sc	Shrublands; <i>Acacia cyperophylla</i> thicket	24253	15

Appendix 2 continued

Sc-02b	a14Sc	Shrublands; Acacia quadrimarginea thicket	510	0
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	31464	20
Si-01f	a1,14Si	Shrublands; mulga & Acacia quadrimarginea scrub	25	0
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	4550	3
Si-08b	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	588	0
r	n/a	Bare areas; rock outcrops	5110	0
sl	n/a	Bare areas; salt lakes	5509	2

			152615	

Calm Estate Name : Mount Manypeaks Nature Reserve
 Lat: -34.89356 Long: 118.3126 District: Albany

PI Number: 36028

HopkinCode	BeardsCode	Description	Area	%
Lc-06c	eclc	Low forest; jarrah & casuarina	0	
SZ-01d	e65SzC	Shrublands; Albany blackbutt mallee-heath	35	3
Si-15d	e37,38Si	Shrublands; mallee scrub, bushy yate & Bald I. marlock	1156	97

			1191	

Calm Estate Name : Mount Ney Nature Reserve
 Lat: -33.39615 Long: 122.4526 District: Esperance

PI Number: 32782

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	609	100

			609	

Calm Estate Name : Mount Ridley Nature Reserve
 Lat: -33.45254 Long: 122.0317 District: Esperance

PI Number: 27386

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1417	100

			1417	

Calm Estate Name : Mount Stirling Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 11048

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	79	36
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegelliana	145	65

			224	

m Estate Name : Mournucking Nature Reserve
 : -31.71207 Long: 117.7078 District: Merredin

PI Number: 24897

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	2	0
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	52	7
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	647	91

			701	

Appendix 2 continued

Calm Estate Name : Mt Elvire

Lat: 0 Long: 0 District:

PI Number:

HopkinCode	BeardsCode	Description	Area	%
Cs-01a	a1sr k1ci	Succulent steppe; saltbush with scattered mulga shrubs	9209	5
Cs-02i HX-01a	ansr k1ci e22Lr t2Hi xZp	Succulent steppe; saltbush, with scattered wattles Hummock grassland, mixed sandplain - scattered low trees over sparse dwarf shrubs with spinifex; red mallee over mixed dwarf shrubs with T. basedowii	17711	11
HX-02a	e22Sr t2Hi xZp	Hummock grasslands, mixed sandplain - open mallee over sparse dwarf shrubs with spinifex ; red mallee mallee & mixed sparse dwarf shrubs over T. basedowii	12639	8
Li-02a	a1Li	Low woodland; mulga	2800	1
Li-03a	a1Li	Low woodland; mulga between sandridges	35211	23
Li-05a	a1ceLi	Low woodland; mulga mixed with sheoak & Eucalyptus sp	22813	14
Li-05d	a1cLi (caLi)	Low woodland; mulga & callitris	4393	3
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	2832	2
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	2	0
Sc-02a	a12Sc	Shrublands; Acacia cyperophylla thicket	7966	4
Si-01f	a1,14si	Shrublands; mulga & Acacia quadrifolia scrub	3920	2
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	7674	5
Si-08b	easi	Shrublands; mallee & acacia scrub on coastal dunes	4688	3
Sm-02b	e6Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered York gum	31	0
r	n/a	Bare areas; rock outcrops	155382	
sl	n/a	Bare areas; salt lakes	2184	0
			21204	13

Calm Estate Name : Mullet Lake Nature Reserve

Lat: -33.80268 Long: 121.9791 District: Esperance

PI Number: 23825

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	366	25
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	741	52
ds	n/a	Bare areas; drift sand	339	23
			1445	

Calm Estate Name : Mungaroona Range Nature Reserve

Lat: 0 Long: 0 District:

PI Number: 31429

HopkinCode	BeardsCode	Description	Area	%
Hl-04f	a2Sb t1,6Hi	Hummock grasslands, shrub-steppe; kanji over Triodia pungens & T. brizoides	18413	17
Hl-02a/Hs-02a	e16Lr t3Hi/a2Sr t1Hi	Mosaic: Hummock grasslands, open low tree-steppe; snappy gum over T. wiseana / Hummock grasslands, shrub-steppe; kanji over Triodia pungens	17275	16
Hs-02a	a2Sr t1Hi	Hummock grasslands, shrub-steppe; kanji over Triodia pungens (+grevillea)	2449	2
Hs-05a	a2Sr t1,3Hi	Hummock grasslands, shrub-steppe; kanji over T. pungens & T. wiseana	68000	64
Mi-07b	e18Mi	Medium woodland; river gum	245	0
			106382	

Calm Estate Name : Mungarri Nature Reserve

Lat: -30.34509 Long: 117.7529 District: Merredin

PI Number: 17923

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	440	100

Appendix 2 continued

440

Calm Estate Name : Mungerungcutting Nature Reserve PI Number: 2175
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	22	100
			22	

Calm Estate Name : Munglinup Nature Reserve PI Number: 26410
 Lat: -33.73752 Long: 120.8947 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	130	88
Si-07a	mSi	Shrublands; teatree scrub	18	12
			149	

Calm Estate Name : Muntz Nature Reserve PI Number: 31799
 Lat: -33.58175 Long: 122.8217 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	613	17
SZ-03j	xSZc	Shrublands; scrub-heath	92	3
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	2788	77
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	108	3
sl	n/a	Bare areas; salt lakes	14	0
			3615	

Calm Estate Name : Murapin Nature Reserve PI Number: 17257
 Lat: -33.53943 Long: 117.1851 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	3	3
Sm-01a	e5,7Mr mSc	Shrublands; teatree thicket with scattered wandoo & yate	31	29
sl	n/a	Bare areas; salt lakes	70	67
			104	

Calm Estate Name : Murnanying Nature Reserve PI Number: 30298
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	22	100
			22	

Calm Estate Name : Myalup State Forest PI Number: 16
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	2970	37
Mi-01f	e3Mi	Medium woodland; marri	6	0
Mi-02a	e4Mi	Medium woodland; tuart	811	8
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	3883	50
Ti-01a	e4Ti	Tall woodland; tuart	62	0

Appendix 2 continued

7732

Calm Estate Name : Nabaroo Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 29905

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	8	100
			8	

Calm Estate Name : Nallian Nature Reserve
 Lat: -33.23431 Long: 117.4293 District: Katanning

PI Number: 4458

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	29	28
Zc-02a	dZc	Shrublands; dryandra heath	71	71
			100	

Calm Estate Name : Namban Nature Reserve
 Lat: -30.36454 Long: 115.9795 District: Moora

PI Number: 23316

HopkinCode	BeardsCode	Description	Area	%
Li-09c	b3Li	Low woodland; Banksia prionotes	12	4
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	79	27
Sm-01c	e6Mr mSc	Shrublands; teatree thicket with scattered York gum m5	176	59
Sm-05a	e6Mr esi	Shrublands; mallee with scattered York gum	32	11
			299	

Calm Estate Name : Nambung National Park
 Lat: -30.52005 Long: 115.1108 District: Moora

PI Number: 24522

HopkinCode	BeardsCode	Description	Area	%
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	3139	17
SZ-03i	x9SzC	Shrublands; scrub-heath	1645	9
Zc-01a/Sc-02i	a26m4Zc/a32Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia cyclops thicket	602	3
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	10768	57
ds	n/a	Bare areas; drift sand	2789	14
			18943	

Calm Estate Name : Namelcatchem Nature Reserve
 Lat: -31.1829 Long: 117.19 District: Merredin

PI Number: 687

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	261	100
			261	

Calm Estate Name : Nanamoolan Nature Reserve
 Lat: -31.65893 Long: 116.4957 District: Mundaring

PI Number: 33254

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	9	100
			9	
Calm Estate Name : Nangeen Hill Nature Reserve Lat: 0 Long: 0 District:			PI Number: 23187	
HopkinCode BeardsCode Description			Area %	
Mi-05c	e6Mi	Medium woodland; York gum	129	74
Sc-01c	a19c5Si	Shrublands; thicket, Jam & Allocasuarina huegelliana	34	20
Sm-01f	e5Mr c3Sc	Shrublands; thicket with scattered wandoo	11	6
			175	
Calm Estate Name : Nangeenan Nature Reserve Lat: -31.51276 Long: 118.1621 District: Merredin			PI Number: 24532	
HopkinCode BeardsCode Description			Area %	
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	61	98
			61	
Calm Estate Name : Napping Nature Reserve Lat: 0 Long: 0 District:			PI Number: 21286	
HopkinCode BeardsCode Description			Area %	
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	21	35
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	39	65
			60	
Calm Estate Name : Narlingup Nature Reserve Lat: -33.85825 Long: 116.8903 District: Katanning			PI Number: 8617	
HopkinCode BeardsCode Description			Area %	
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	149	100
			149	
Calm Estate Name : Neale Junction Nature Reserve Lat: 0 Long: 0 District:			PI Number: 34720	
HopkinCode BeardsCode Description			Area %	
Ci-01a	xCi	Succulent steppe; heterogeneous spp	5612	1
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i>	79972	11
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i> between sandhills	142478	20
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i>	149835	21
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i> between sandhills	299	0
Hms-01a	e19Mr e20Sr t2Hi	Hummock grasslands, open medium tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over	189152	26

Appendix 2 continued

Li-02a	a1Li	hard spinifex <i>Triodia basedowii</i>	115858	16
Si-12a	e70Si	Low woodland; mulga	40589	6
Si-15h	eSi	Shrublands; mallee scrub <i>Eucalyptus eudesmoides</i>	1275	0
		Shrublands; mallee scrub (Nullabor) e30,31,36		
				725070

Calm Estate Name : Needilup Nature Reserve
Lat: -33.83029 Long: 118.8079 District: Albany

PI Number: 14039

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	352	56
Si-11a	e15Si	Shrublands; mallee scrub <i>E. eremophila</i>	159	26
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	109	17
Zi-01b	x2i	Shrublands; dwarf scrub on granite (South coast)	4	1
				624

Calm Estate Name : Neendojer Rock Nature Reserve
Lat: -31.88847 Long: 119.1302 District: Merredin

PI Number: 34776

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	1884	83
Si-09c	e6,39Si	Shrublands; York gum & <i>Eucalyptus sheathiana</i> mallee scrub	245	10
r	n/a	Bare areas; rock outcrops	127	6
				2256

Calm Estate Name : Neerabup National Park
Lat: 0 Long: 0 District:

PI Number: 27575

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	152	13
Mi-02a	e4Mi	Medium woodland; tuart	960	86
				1112

Calm Estate Name : Neerabup Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 24581

HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	25	19
Mi-02a	e4Mi	Medium woodland; tuart	106	81
				131

Calm Estate Name : Nembutting Nature Reserve
Lat: -31.19184 Long: 117.5658 District: Merredin

PI Number: 34385

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	15	37
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	25	63
				39

Calm Estate Name : Nembutting South Nature Reserve

PI Number: 4670

Appendix 2 continued

Lat: -31.23271 Long: 117.581 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	3	22
SZ-03j/Sc-04a	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	9	78
				12

Calm Estate Name : Neredup Nature Reserve

Lat: -33.55596 Long: 122.9016 District: Esperance

PI Number: 32784

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	7	0
SZ-03j/SZ-01c	xSZc/e29 SZc	Mosaic: Shrublands; scrub-heath / Shrublands; Eucalyptus incrassata mallee-heath	17	1
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	1683	99
				1707

Calm Estate Name : Niagara Dam Nature Reserve

Lat: 0 Long: 0 District:

PI Number: 5062

HopkinCode	BeardsCode	Description	Area	%
HX-02a	e22Sr t2Hi xZp	Hummock grasslands, mixed sandplain - open mallee over sparse dwarf shrubs with spinifex ; red mallee mallee & mixed sparse dwarf shrubs over T. basedowii	430	73
Li-02a	a1Li	Low woodland; mulga	162	28
				592

Calm Estate Name : Niblick Nature Reserve

Lat: -33.45792 Long: 122.9844 District: Esperance

PI Number: 38544

HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	838	100
				838

Calm Estate Name : Nilgen Nature Reserve

Lat: -30.97804 Long: 115.3453 District: Moora

PI Number: 31781

HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	102	1
SZ-03i	x9SzC	Shrublands; scrub-heath	1969	35
SZ-03j	xSzC	Shrublands; scrub-heath	306	5
Zc-01a/Sc-02h	a26m4Zc/a23,32Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Acacia cyclops thicket	0	0
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	3064	55
ds	n/a	Bare areas; drift sand	117	2
				5559

Calm Estate Name : Nulligarri Nature Reserve

Lat: -28.50162 Long: 114.6158 District: Geraldton

PI Number: 12017

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	7	100
			7	
Calm Estate Name : Nine Mile Lake Nature Reserve Lat: -32.74001 Long: 115.776 District: Dwellingup		PI Number: 16907		
HopkinCode	BeardsCode	Description	Area	%
Mi-01a/Li-09a/Lc-03a	e2,3Mi/bLi/mLc	Mosaic:Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree	115	100
			115	
Calm Estate Name : Ningaloo Marine Park Lat: 0 Long: 0 District:		PI Number: 2		
HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	0	
HX-04a	ansZr t1,2Hi	Hummock grassland; shrub steppe; mixed acacia scrub & dwarf scrub with T. pungens & T. basedowii	20	0
HX-04a	ansZr t1,2Hi	Hummock grassland; shrub steppe; mixed acacia scrub & dwarf scrub with T. pungens & T. basedowii	1	0
Hi-03b	e24Lb t1,7Hi	Hummock grasslands, sparse tree-steppe; scattered bloodwood over T. pungens & T. sp. indet. aff. angusta	12	0
Hs-02d	a3Sr t1Hi	Hummock grasslands, shrub-steppe; waterwood over Triodia pungens	204	7
Hs-03f	anSrt2Hi	Hummock grasslands, shrub-steppe; acacia & grevillea over Triodia basedowii	1637	65
Si-03c	a14,19Si	Shrublands; Acacia quadrimarginea & jam scrub on greenstone	405	16
Zr-01a	xZr	Shrublands; open dwarf scrub, waterwood (A. coriacea) on recent dunes (Pilbara coast)	240	9
			2519	
Calm Estate Name : Nonalling Nature Reserve Lat: 0 Long: 0 District:		PI Number: 24428		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	35	7
SC-02b	mSc k3Ci	Succulent steppe; teatree thicket over samphire m5	229	45
sl	n/a	Bare areas; salt lakes	242	48
			506	
Calm Estate Name : Noombling Nature Reserve Lat: 0 Long: 0 District:		PI Number: 26150		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	50	69
Mi-05c	e6Mi	Medium woodland; York gum	22	30
			72	
Calm Estate Name : Noonebin Nature Reserve Lat: 0 Long: 0 District:		PI Number: 11320		

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	4	100
			4	
Calm Estate Name : Noonying Nature Reserve Lat: -31.65889 Long: 117.4488 District: Merredin		PI Number: 10313		
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	50	100
			50	
Calm Estate Name : Noorajin Soak Nature Reserve Lat: -30.76168 Long: 117.2455 District: Merredin		PI Number: 10262		
HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	151	76
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	47	24
			198	
Calm Estate Name : Norpa Nature Reserve Lat: -31.58175 Long: 118.4174 District: Merredin		PI Number: 20504		
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	203	100
			203	
Calm Estate Name : North Baandee Nature Reserve Lat: -31.37099 Long: 117.9371 District: Merredin		PI Number: 12329		
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	6	5
SZ-03j/Sc-04a	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	98	94
			104	
Calm Estate Name : North Baandee Nature Reserve Lat: -31.37099 Long: 117.9371 District: Merredin		PI Number: 12329		
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	14	32
SZ-03j/Sc-04a	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	30	67
			44	
Calm Estate Name : North Beacon Nature Reserve Lat: -30.41161 Long: 117.8854 District: Merredin		PI Number: 22457		
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris	17	16

Appendix 2 continued

Sc-06a	anSc (=acmSc)	columellaris (cypress pine) Shrublands; thicket, acacia-casuarina-melaleuca alliance	89	84
			-----	107
Calm Estate Name : North Bonnie Rock Nature Reserve Lat: -30.48666 Long: 118.3382 District: Merredin				PI Number: 29303
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	34	17
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	163	83
			-----	197
Calm Estate Name : North Bungulla Nature Reserve Lat: -31.52739 Long: 117.5893 District: Merredin				PI Number: 17732
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	89	94
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	7	7
			-----	95
Calm Estate Name : North Jitarning Nature Reserve Lat: 0 Long: 0 District:				PI Number: 27979
HopkinCode	BeardsCode	Description	Area	%
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	51	100
			-----	51
Calm Estate Name : North Karlgarin Nature Reserve Lat: 0 Long: 0 District:				PI Number: 20338
HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	2610	50
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	2587	49
r	n/a	Bare areas; rock outcrops	28	1
			-----	5224
Calm Estate Name : North Sister Nature Reserve Lat: -34.79419 Long: 118.1785 District: Albany				PI Number: 26385
HopkinCode	BeardsCode	Description	Area	%
Lc-06a	e2Lc	Low forest; jarrah	392	38
Lc-06c	eclc	Low forest; jarrah & casuarina	628	62
			-----	1020
Calm Estate Name : North Tammin Nature Reserve Lat: -31.54273 Long: 117.4719 District: Merredin				PI Number: 4667
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum,	15	47

Appendix 2 continued

SZ-03j/Sc-04a	xSZc/c3Sc	morrel & gimlet Mosaic: Shrublands; scrub-heath / Shrublands; <i>Allocasuarina campestris</i> thicket	16	53
			-----	31
Calm Estate Name : North Tarin Rock Nature Reserve Lat: -32.99131 Long: 118.247 District: Katanning				PI Number: 29857
HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	1025	71
Si-11c/Mi-05g	e15,24Si/e8,9Mi	Mosaic: Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & bloodwood <i>E. dichromophloia</i> / Medium woodland; salmon gum & morrel	11	1
Si-11d	e15,27Si	Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & black marlock	33	2
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	297	21
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	77	5
			-----	1443
Calm Estate Name : North Wagin Nature Reserve Lat: -33.29412 Long: 117.3242 District: Katanning				PI Number: 30443
HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	34	54
SCm-01c	e5,8c6Mr mSi k3Ci	Succulent steppe; wandoo, salmon gum & <i>Allocasuarina obesa</i> open woodland, teatree scrub & samphire	28	46
			-----	62
Calm Estate Name : North Wallambin Nature Reserve Lat: -30.91353 Long: 117.6278 District: Merredin				PI Number: 26687
HopkinCode	BeardsCode	Description	Area	%
ML-01a	e6pMLi	Medium-Low woodland; York gum & <i>Callitris columellaris</i> (cypress pine)	21	7
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	164	55
sl	n/a	Bare areas; salt lakes	112	38
			-----	297
Calm Estate Name : North Woyerling Nature Reserve Lat: 0 Long: 0 District:				PI Number: 20066
HopkinCode	BeardsCode ,	Description	Area	%
Mi-01k	e5Mi	Medium woodland; wandoo	24	100
			-----	24
Calm Estate Name : North Yilliminning Nature Reserve Lat: 0 Long: 0 District:				PI Number: 21229
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	112	88
Mi-05c	e6Mi	Medium woodland; York gum	15	12
			-----	127

Appendix 2 continued

Calm Estate Name : Nugadong Nature Reserve
 Lat: -30.20539 Long: 116.6618 District: Merredin

PI Number: 29326

HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginea thicket	10	100
			10	

Calm Estate Name : Nukarni Nature Reserve
 Lat: -31.29532 Long: 118.199 District: Merredin

PI Number: 28406

HopkinCode	BeardsCode	Description	Area	%
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	96	99
			96	

Calm Estate Name : Nuytsland Nature Reserve
 Lat: -32.31661 Long: 126.0794 District: Esperance

PI Number: 27632

HopkinCode	BeardsCode	Description	Area	%
Ci-03a	k2Ci	Succulent steppe; bluebush	906	0
Ci-03b	k2Ci	Succulent steppe; bluebush (in dongas)	10422	1
Cl-04b	a13Lr kCi	Succulent steppe; saltbush & bluebush, with open low woodland; A. papyrocarpa (k=1,2)	16	0
Mi-06e	e11,22Mi	Medium woodland; merrit & red mallee	32206	5
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	21845	4
SZ-01f	eSzC	Shrublands; mallee-heath e	34409	6
SZ-03j	xSzC	Shrublands; scrub-heath	1193	0
SZ-03j/SZ-01c	xSzC/e29 SzC	Mosaic: Shrublands; scrub-heath / Shrublands; Eucalyptus incrassata mallee-heath	78737	14
Sc-09d	dSc	Shrublands; Mt Ragged heath	63	0
Si-08a	easi	Shrublands; mallee & acacia scrub on coastal dunes	31802	5
Si-08b	easi	Shrublands; mallee & acacia scrub on coastal dunes	65642	11
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	20423	3
Si-15b	e30Si	Shrublands; mallee scrub, blue mallee E. socialis	170291	29
Si-15c	e31Si	Shrublands; mallee scrub, white mallee E. cooperana	59716	10
ds	n/a	Bare areas; drift sand	7917	1
sl	n/a	Bare areas; salt lakes	2037	0
			44805	8
			582430	

Calm Estate Name : Oakajee Nature Reserve
 Lat: -28.5721 Long: 114.6511 District: Geraldton

PI Number: 331

HopkinCode	BeardsCode	Description	Area	%
Sc-09f	mhSc	Shrublands; mixed thicket	95	75
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	31	24
			126	

Calm Estate Name : Oakley Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 19122

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	98	68
Mi-05c	e6Mi	Medium woodland; York gum	48	33

Appendix 2 continued

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Calm Estate Name : Old Store Nature Reserve
 Lat: -30.39659 Long: 117.1587 District: Merredin

PI Number: 19650

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	62	99
			62	

Calm Estate Name : One Mile Rocks Nature Reserve
 Lat: -33.2048 Long: 119.8034 District: Katanning

PI Number: 29864

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	15	1
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	586	68
Si-13e/Mi-05g	eSi/e8,9Mi	Mosaic: Shrublands; mallee scrub, redwood / Medium woodland; salmon gum & morrel	266	31
			867	

Calm Estate Name : One Tree Point Nature Reserve
 Lat: -24.85739 Long: 113.637 District: Gascoyne

PI Number: 28220

HopkinCode	BeardsCode	Description	Area	%
Sp-01b/Ci-02b	k1,2Ci/a8Sp	Mosaic: Shrublands; Acacia sclerosperma sparse scrub / Succulent steppe; saltbush & bluebush	344	100
			344	

Calm Estate Name : Orchid Nature Reserve
 Lat: -34.36076 Long: 117.5348 District: Katanning

PI Number: 2218

HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	45	100
			45	

Calm Estate Name : Ord River Nature Reserve
 Lat: -15.40617 Long: 128.2932 District: East Kimberley

PI Number: 31967

HopkinCode	BeardsCode	Description	Area	%
A-01a	mangrove	Low forest; mangroves(Kimberley), /Scrub; mangroves (Pilbara)	19000	20
KG-01a	be17Lb ads2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over mitchell, blue & tall upland grasses on black soil plain	413	0
KGM-01a	e24,48,49Mi s1,2Gc	Grasslands, high grass savanna woodland; bloodwood, stringybark & woollybutt over white grass on SST (usually with t11)	107	0
KGM-02e	e24,48,49Mi s2t11Gc	Grasslands, high grass savanna woodland; bloodwood, stringybark & woollybutt over upland tall grass & curly spinifex	705	0
KGM-02g	e48,49,Mi (s2)t11Gc	Grasslands, high grass savanna woodland; stringybark & woollybutt over upland tall grass & curly spinifex	4668	6
KGM-03a	e50,59,62Mi ks1,2Gc	Grasslands, high grass savanna woodland; grey box, E.confertifolia & E. foelscheana over kangaroo, white & tall upland grass on sandy plain on LST	101	0
KGM-03b	e50,62Mi ks1Gc	Grasslands, high grass savanna woodland; grey box & E. foelscheana over kangaroo &white grass	2	0

Appendix 2 continued

KGL-01b	tbLr s2Gc	Grasslands, high grass savanna low tree; terminalia & bauhinia over upland tall grass	24	0
cl/md	n/a	Bare areas; clatpans, mudflats	40793	58
				65813
Calm Estate Name : Overheu Nature Reserve Lat: 0 Long: 0 District:		PI Number: 25546		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	19	100
				19
Calm Estate Name : Overshot Hill Nature Reserve Lat: -33.52772 Long: 120.001 District: Albany		PI Number: 27525		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	21	5
Si-14a	e28Si	Shrublands; mallee scrub Eucalyptus nutans	412	95
				433
Calm Estate Name : Pallarp Nature Reserve Lat: -33.20941 Long: 119.7447 District: Katanning		PI Number: 29860		
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	307	7
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	902	22
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	635	15
Si-13e/Mi-05g	eSi/e8,9Mi	Mosaic: Shrublands; mallee scrub, redwood / Medium woodland; salmon gum & morrel	1186	29
r	n/a	Bare areas; rock outcrops	215	5
sl	n/a	Bare areas; salt lakes	945	22
				4189
Calm Estate Name : Pallinup Nature Reserve Lat: -34.41054 Long: 118.7078 District: Albany		PI Number: 28687		
HopkinCode	BeardsCode	Description	Area	%
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	10	2
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	17	4
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	402	94
				430
Calm Estate Name : Pantapin Nature Reserve Lat: 0 Long: 0 District:		PI Number: 18342		
HopkinCode	BeardsCode	Description	Area	%
Sm-01f	e5Mr c3Sc	Shrublands; thicket with scattered wandoo		100
Calm Estate Name : Paperbark Nature Reserve Lat: 0 Long: 0 District:		PI Number: 12899		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	121	100

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Calm Estate Name : Parkeyerring Nature Reserve PI Number: 10733
 Lat: -33.37969 Long: 117.3427 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Li-03a	a1Li	Low woodland; mulga between sandridges	11	1
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wando & salmon gum	58	5
SCm-01c	e5,8c6Mr mSi k3Ci	Succulent steppe; wandoo, salmon gum & Allocasuarina obesa open woodland, teatree scrub & samphire	315	31
sl	n/a	Bare areas; salt lakes	610	61
			994	

Calm Estate Name : Parry Lagoons Nature Reserve PI Number: 42155
 Lat: 0 Long: 0 District: East Kimberley

HopkinCode	BeardsCode	Description	Area	%
HI-01a	me60Li t11Hi	Hummock grasslands, low tree steppe; silver-leaved box & melaleuca over plectrachne	893	2
KG-01a	be17Lb ads2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over mitchell, blue & tall upland grasses on black soil plain	11687	32
KGM-02a	e24Mi s2t11Gc	Grasslands, high grass savanna woodland; bloodwood over upland tall grass & curly spinifex	17	0
KGM-02b	e24,48Mi ps2Gc	Grasslands, high grass savanna woodland; bloodwood & stringybark over upland tall grass & curly spinifex	11394	31
KGM-02h	e50,62Mi s2t11Gc	Grasslands, high grass savanna woodland; ghost gum & E. foelscheana over upland tall grass & curly spinifex on basalt	924	3
KGM-03b	e50,62Mi ks1Gc	Grasslands, high grass savanna woodland; grey box & E. foelscheana over kangaroo & white grass	3640	10
KGM-03c	e52,57Mi ts2Gc	Grasslands, high grass savanna woodland; ghost gum & bloodwood (E. polycarpa) over triodia & tall upland grass	2222	5
cl/md	n/a	Bare areas; clatpans, mudflats	5567	15
			36345	

Calm Estate Name : Peak Charles National Park PI Number: 36004
 Lat: -32.90985 Long: 121.1068 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	1090	3
Mi-06e	e11,22Mi	Medium woodland; merrit & red mallee	3524	9
Mi-06n	e8,22Mi	Medium woodland; salmon gum & red mallee	12168	30
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	20	0
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	19194	48
Si-11a/Mi-06d	e15Si/e11,12Mi	Mosaic: Shrublands; mallee scrub E. eremophila / Medium woodland; merrit & coral gum	0	0
Si-11a/Mi-06n	e15Si/e8,22Mi	Mosaic: Shrublands; mallee scrub E. eremophila / Medium woodland; salmon gum & red mallee	184	0
sl	n/a	Bare areas; salt lakes	3779	9
			39959	

Calm Estate Name : Pederah Nature Reserve PI Number: 30267
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	187	47

Appendix 2 continued

Si-13a	e27Si	Shrublands; mallee scrub, black marlock	187	47
r	n/a	Bare areas; rock outcrops	28	7

			402	

Calm Estate Name : Peel Estate State Forest PI Number: 70
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	122	100

			122	

Calm Estate Name : Peringillup Nature Reserve PI Number: 36324
 Lat: -33.9384 Long: 117.6434 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-04e	e5,69Mi	Medium woodland; wandoo & blue mallet	23	9
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	159	72
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	38	18

			219	

Calm Estate Name : Petercarring Nature Reserve PI Number: 20095
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	90	87
Mi-05c	e6Mi	Medium woodland; York gum	14	13

			103	

Calm Estate Name : Phillips Brook Nature Reserve PI Number: 619
 Lat: -34.88544 Long: 117.7683 District: Albany

HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	17	33
Li-12d	e2,65 c7Lc	Low woodland; jarrah, E. decipiens & Allocasuarina fraseriana	33	67

			50	

Calm Estate Name : Piara Nature Reserve PI Number: 36594
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	41	100

			41	

Calm Estate Name : Pikaring Nature Reserve PI Number: 976
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	44	71
r	n/a	Bare areas; rock outcrops	17	28

			61	

Appendix 2 continued

Calm Estate Name : Pikaring West Nature Reserve Lat: 0 Long: 0 District:	PI Number: 23141
HopkinCode ----- Mi-05c SZ-03j/Sc-04a	BeardsCode ----- e6Mi xSZc/c3Sc
	Description ----- Medium woodland; York gum Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket
	Area % ----- 14 23 46 77 ----- 60
Calm Estate Name : Pingaring Nature Reserve Lat: 0 Long: 0 District:	PI Number: 23993
HopkinCode ----- Si-13a r	BeardsCode ----- e27Si n/a
	Description ----- Shrublands; mallee scrub, black marlock Bare areas; rock outcrops
	Area % ----- 39 59 28 41 ----- 68
Calm Estate Name : Pingeculling Nature Reserve Lat: 0 Long: 0 District:	PI Number: 36519
HopkinCode ----- Mi-04b Mi-05c	BeardsCode ----- e64,45Mi e6Mi
	Description ----- Medium woodland; powderbark & mallet Medium woodland; York gum
	Area % ----- 88 36 153 63 ----- 242
Calm Estate Name : Pingelly Nature Reserve Lat: 0 Long: 0 District:	PI Number: 29182
HopkinCode ----- Mi-04b Mi-05c	BeardsCode ----- e64,45Mi e6Mi
	Description ----- Medium woodland; powderbark & mallet Medium woodland; York gum
	Area % ----- 0 5 100 ----- 5
Calm Estate Name : Pinjarregga Nature Reserve Lat: -30.03408 Long: 115.8714 District: Moora	PI Number: 25210
HopkinCode ----- Mi-05c Mi-08c SCM-01a SZ-03g SZ-03h Sc-08b sl	BeardsCode ----- e6Mi e6,18Mi e6Mi m5Sc k3Ci x7SZc x8SZc m5Sc n/a
	Description ----- Medium woodland; York gum Medium woodland; York gum & river gum Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire Shrublands; scrub-heath on lateritic sandhills Shrublands; scrub-heath on sandplain Shrublands; Melaeuca thyoidesthicket Bare areas; salt lakes
	Area % ----- 183 0 2310 12 944 6 11190 59 2068 11 229 0 1473 9 ----- 18397
Calm Estate Name : Pintharuka Nature Reserve Lat: -29.10179 Long: 115.99 District: Geraldton	PI Number: 36334
HopkinCode ----- Mi-05f	BeardsCode ----- e6,8Mi
	Description ----- Medium woodland; York gum & salmon gum
	Area % ----- 62 100 ----- 62

Appendix 2 continued

Calm Estate Name : Pinticup Nature Reserve
 Lat: -34.46613 Long: 116.8076 District: Manjimup

PI Number: 26682

HopkinCode	BeardsCode	Description	Area	%
Li-01a	e2bLi	Low woodland; jarrah-banksia	76	100
			76	

Calm Estate Name : Plain Hills Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 36558

HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	38	17
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands;	167	77
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Allocasuarina campestris thicket Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	12	5
			217	

Calm Estate Name : Plumridge Lakes Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 34605

HopkinCode	BeardsCode	Description	Area	%
CL-05a	a1c2Li k2Ci	Succulent steppe; bluebush with open low woodland; mulga & sheoak	51403	17
CL-02a	a1Lr k1Ci	Succulent steppe; saltbush with open low mulga	61265	19
HL-07a	a1c2Lr t2Hi	Hummock grasslands, open low tree steppe; mulga, Allocasuarina cristata & hard spinifex between sand ridges	1160	0
HL-08a	a1Lr t8Hi	Hummock grasslands, open low tree steppe; mulga over T. scariosa	4426	1
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (E. youngiana) over hard spinifex Triodia basedowii between sandhills	50753	16
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (E. youngiana) over spinifex Triodia scariosa	37090	12
Hs-10d	e22Sr t8Hi	Hummock grasslands, shrub steppe; red mallee over spinifex Triodia scariosa	82972	27
Li-05c	a1c2Li	Low woodland; mulga & Allocasuarina cristata	13512	4
Li-05e	a1c2Lr	Low open woodland; mulga & Allocasuarina cristata	6045	2
			308627	

Calm Estate Name : Point Spring Nature Reserve
 Lat: -15.40939 Long: 128.8853 District: East Kimberley

PI Number: 34585

HopkinCode	BeardsCode	Description	Area	%
KG-01a	be17Lb ads2Gc	Grasslands, high grass savanna sparse tree; bauhinia & coolabah over mitchell, blue & tall upland grasses on black soil plain	37	12
KGM-02d	e24,49Mi s2,t11Gc	Grasslands, high grass savanna woodland; bloodwood & woollybutt over upland tall grass & curly spinifex	36	12
KGM-02g	e48,49Mi s2,t11Gc	Grasslands, high grass savanna woodland; stringybark & woollybutt over upland tall grass & curly spinifex	190	62
KG-01a	tLb aGc	Grasslands, tall bunch grass savanna, sparse low tree, terminalia; mitchell grass	41	14
			305	

Appendix 2 continued

Calm Estate Name : Poison Gully Nature Reserve PI Number: 19900
 Lat: -31.46666 Long: 116.3949 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	35	41
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	52	59
			87	

Calm Estate Name : Pootenup Nature Reserve PI Number: 38303
 Lat: -34.23511 Long: 117.6448 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	0	
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	47	100
			47	

Calm Estate Name : Prince Regent Nature Reserve PI Number: 27164
 Lat: -15.37195 Long: 125.2738 District: East Kimberley

HopkinCode	BeardsCode	Description	Area	%
KGM-02g	e48,49,Mi (s2)t11Gc	Grasslands, high grass savanna woodland; stringybark & woolybutt over upland tall grass & curly spinifex	30	100
			30	

Calm Estate Name : Prince Regent Nature Reserve PI Number: 27164
 Lat: -15.37195 Long: 125.2738 District: East Kimberley

HopkinCode	BeardsCode	Description	Area	%
A-01a	mangrove	Low forest; mangroves(Kimberley), /Scrub; mangroves (Pilbara)	2943	0
KGM-01b	e50,51Mi s1,2Gc	Grasslands, high grass savanna woodland; grey box & cabbage gum over white grass	60938	8
KGM-02f	e48,49Mi ps2Gc	Grasslands, high grass savanna woodland; stringybark & woolybutt over upland tall grass & curly spinifex	27029	2
KGM-02g	e48,49,Mi (s2)t11Gc	Grasslands, high grass savanna woodland; stringybark & woolybutt over upland tall grass & curly spinifex	451676	82
Lc-04a	xLc	Low forest; mixed tropical deciduous forest.	117	0
Mi-10b	e48,49MilPi	Medium woodland-tropical messmate; stringybark & woolybutt with understory of palms	1693	0
cl/md	n/a	Bare areas; clatpans, mudflats	494	0
			544890	

Calm Estate Name : Protheroe Nature Reserve PI Number: 27349
 Lat: -28.50998 Long: 114.7414 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
SZ-03a	x2SzC	Shrublands; scrub-heath on coastal association	3	4
Sm-02c	e6Mr a19Si	Shrublands; jam scrub with scattered York gum	69	96
			72	

Calm Estate Name : Purnululu Conservation Reserve PI Number: 39898
 Lat: -17.55046 Long: 128.3278 District: East Kimberley

HopkinCode	BeardsCode	Description	Area	%
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Appendix 2 continued

Hi-02a	e16Lb t1Hi	Hummock grasslands, sparse tree steppe; snappy gum over soft spinifex <i>Triodia pungens</i> on high SST ridges & plateau	48549	60
Hi-02b	e16,61Lb t1Hi	Hummock grasslands, sparse tree steppe; snappy gum & bloodwood (<i>E. terminalis</i>) over soft spinifex <i>Triodia pungens</i>	5716	7
Hi-02c	e16Lb t1,4Hi	Hummock grasslands, sparse tree steppe; snappy gum over spinifex <i>Triodia pungens</i> & <i>T. intermedia</i> on high SST ridges & plateau	29	0
Hi-03f	e16Lb t4,5Hi	Hummock grasslands, sparse tree steppe; snappy gum over hard spinifex <i>Triodia intermedia</i> & <i>T. inutilis</i>	12781	15
Hl-02c	tLr t3Hi	Hummock grasslands, open low tree steppe; <i>terminalia</i> over <i>Triodia wiseana</i> on LST	11	0
Kg-01a	egc	Grasslands, short bunch grass savanna, grass; annual grasses (Enneapogon species)on dry plains	715	1
Kgl-01a	e54,61Lr egc	Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass	31	0
Kgl-01a/Hl-04d	e54,61Lr,egc/e16Lrt3,4Hi	Mosaic: Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass / Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> & <i>T. intermedia</i>	7880	9
kGl-01e	e50,61Lr a2cGc	Grasslands, tall bunch grass savanna low tree; grey box & bloodwood (<i>E. terminalis</i>) over aristida & ribbon grass on sandy plain	5513	6
				81225

Calm Estate Name : Purnululu National Park PI Number: 39897
Lat: -17.42733 Long: 128.5631 District: East Kimberley

HopkinCode	BeardsCode	Description	Area	%
Hi-02a	e16Lb t1Hi	Hummock grasslands, sparse tree steppe; snappy gum over soft spinifex <i>Triodia pungens</i> on high SST ridges & plateau	254	0
Hi-02b	e16,61Lb t1Hi	Hummock grasslands, sparse tree steppe; snappy gum & bloodwood (<i>E. terminalis</i>) over soft spinifex <i>Triodia pungens</i>	31	0
Hi-02c	e16Lb t1,4Hi	Hummock grasslands, sparse tree steppe; snappy gum over spinifex <i>Triodia pungens</i> & <i>T. intermedia</i> on high SST ridges & plateau	81080	34
Hi-03f	e16Lb t4,5Hi	Hummock grasslands, sparse tree steppe; snappy gum over hard spinifex <i>Triodia intermedia</i> & <i>T. inutilis</i>	2	0
Kg-01a	egc	Grasslands, short bunch grass savanna, grass; annual grasses (Enneapogon species)on dry plains	52016	21
Kgl-01a/Hl-04d	e54,61Lr,egc/e16Lrt3,4Hi	Mosaic: Grasslands, short bunch grass savanna, low tree, Mt House box & bloodwood over enneapogon short grass / Hummock grasslands, open low tree-steppe; snappy gum over <i>T. wiseana</i> & <i>T. intermedia</i>	4291	1
kGL-01e	e50,61Lr a2cGc	Grasslands, tall bunch grass savanna low tree; grey box & bloodwood (<i>E. terminalis</i>) over aristida & ribbon grass on sandy plain	107526	44
				245200

Calm Estate Name : Quairading Spring Nature Reserve PI Number: 11372
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	30	100
				30

Appendix 2 continued

Calm Estate Name : Queen Victoria Spring Nature Reserve			PI Number: 30491
Lat: 0 Long: 0 District:			
HopkinCode	BeardsCode	Description	Area %
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i> between sandhills	88702 33
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i>	32680 12
Hs-10b	e20Sr t2Hi	Hummock grasslands, shrub steppe; <i>Eucalyptus youngiana</i> over hard spinifex <i>Triodia basedowii</i>	101779 37
Li-05a	a1c2eLi	Low woodland; mulga mixed with <i>Allocasuarina cristata</i> , & <i>Eucalyptus</i> sp (e6)	48382 18
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	587 0
			272129
Calm Estate Name : Quongunnerunding Nature Reserve			PI Number: 10016
Lat: 0 Long: 0 District:			
HopkinCode	BeardsCode	Description	Area %
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	20 7
Mi-05c	e6Mi	Medium woodland; York gum	0 0
SCm-01b	e5c6Mr mSc k3Ci	Succulent steppe; wandoo & <i>Allocasuarina obesa</i> open woodland, teatree thicket & samphire	118 41
st	n/a	Bare areas; salt lakes	154 52
			292
Calm Estate Name : Randell Road Nature Reserve			PI Number: 26586
Lat: 0 Long: 0 District:			
HopkinCode	BeardsCode	Description	Area %
Mi-01h	e2,3,5,7Mi	Medium woodland; jarrah & marri-wandoo-yate	266 59
Si-13c	e67Si	Shrublands; mallee scrub, black marlock & <i>Eucalyptus decipiens</i>	76 17
fl	n/a	Bare areas; freshwater lakes	105 23
			446
Calm Estate Name : Randell Timber Reserve			PI Number: 194/25
Lat: 0 Long: 0 District:			
HopkinCode	BeardsCode	Description	Area %
CL-05a	a1c2Li k2Ci	Succulent steppe; bluebush with open low woodland; mulga & sheoak	790 6
CM-01c	e8Mi k2Ci	Succulent steppe; salmon gum woodland & bluebush	6778 51
Cs-01a	a1Sr k1Ci	Succulent steppe; saltbush with scattered mulga shrubs	117 1
Mi-06h	e13Mi	Medium woodland; goldfields blackbutt	4849 38
Si-11a/Mi-06n	e8,13Mi	Medium woodland; salmon gum & goldfields blackbutt	35 0
			12570
Calm Estate Name : Recerreche Archipelago Nature Reserve			PI Number: 22796
Lat: -34.02166 Long: 122.5245 District: Esperance			
HopkinCode	BeardsCode	Description	Area %
ds	n/a	Bare areas; drift sand	1 100

Appendix 2 continued

1

Calm Estate Name : Red Lake Nature Reserve Lat: 0 Long: 0 District:	PI Number: 16493
HopkinCode BeardsCode Description Area %	
Mi-05c e6Mi Medium woodland; York gum 38 71	
SC-01a e36,66Mp mSc k3Ci Succulent steppe; yorrell & Kondinin blackbutt 16 29	
	sparse woodland, teatree scrub & samphire

	54
Calm Estate Name : Red Lake Townsite Nature Reserve Lat: -33.14875 Long: 121.7014 District: Esperance	PI Number: 29680
HopkinCode BeardsCode Description Area %	
Si-11a/Mi-06n e15Si/e8,22Mi Mosaic: Shrublands; mallee scrub E. eremophila 76 101	/Medium woodland; salmon gum & red mallee

	76
Calm Estate Name : Ridley North Nature Reserve Lat: -33.22321 Long: 121.8533 District: Esperance	PI Number: 28300
HopkinCode BeardsCode Description Area %	
Si-11a e15Si Shrublands; mallee scrub E. eremophila 376 95	
cl/md n/a Bare areas; clatpans, mudflats 17 4	

	393
Calm Estate Name : Ridley South Nature Reserve Lat: -33.25353 Long: 121.8032 District: Esperance	PI Number: 27768
HopkinCode BeardsCode Description Area %	
Si-07a mSi Shrublands; teatree scrub 94 9	
Si-11a e15Si Shrublands; mallee scrub E. eremophila 619 56	
cl/md n/a Bare areas; clatpans, mudflats 377 35	

	1090
Calm Estate Name : Rifle Range Nature Reserve Lat: 0 Long: 0 District:	PI Number: 3218
HopkinCode BeardsCode Description Area %	
Mi-05a e5,6Mi Medium woodland; York gum & wandoo 5 100	

	5
Calm Estate Name : Riverdale Nature Reserve Lat: -32.99299 Long: 115.7844 District: Harvey/Collie	PI Number: 12632
HopkinCode BeardsCode Description Area %	
Mi-01a/Li-09a/Lc-03a e2,3Mi/bLi/mLc Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree 42 100	

	42
Calm Estate Name : Roach Nature Reserve	PI Number: 29885

Appendix 2 continued

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Sc-09c Si-9c/Mi-05j	c4Sc e6,39Si/e8,34Mi	Shrublands; Allocasuarina - Calothamnus thicket Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	247 11	96 4
			258	

Calm Estate Name : Rock View Nature Reserve
Lat: -32.91133 Long: 119.0211 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Si-13a r	e27Si n/a	Shrublands; mallee scrub, black marlock Bare areas; rock outcrops	1695 49	97 3
			1744	

Calm Estate Name : Roe Nature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
SZ-03j Si-13a	xS2c e27Si	Shrublands; scrub-heath Shrublands; mallee scrub, black marlock	137 1109	11 89
			1246	

Calm Estate Name : Rogers Nature Reserve
Lat: -30.85422 Long: 116.6567 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-05a Sc-09b	ecSc c3dSc	Shrublands; mallee & casuarina thicket Shrublands; Tamma & Dryandra thicket	159 182	47 54
			341	

Calm Estate Name : Rose Road Nature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	48	100
			48	

Calm Estate Name : Rosedale Nature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	84	100
			84	

Calm Estate Name : Rowles Lagoon Conservation Park
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Ci-03d	k2Ci	Succulent steppe; bluebush with saltbush in depressions	298	73

Appendix 2 continued

sl	n/a	Bare areas; salt lakes	111	27
			409	
Calm Estate Name : Ruabon Townsite Nature Reserve Lat: -33.64468 Long: 115.5049 District: Busselton		PI Number: 33269		
HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	33	99
			33	
Calm Estate Name : Rudall River National Park Lat: 0 Long: 0 District:		PI Number: 34607		
HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3ci	Succulent steppe; samphire	28723	2
Gl-01a	eLr xGc	Sedgeland; sedges with open low tree sananna; coolabah over various sedges	6442	1
Hi-06a	t1Hi	Hummock grasslands, grass steppe; soft spinifex	105084	7
Hi-08a	t3Hi	Hummock grasslands, grass steppe; hard spinifex	1629	0
HL-03b/Hs-01e	e23Lr.pHi/anSr tpHi	Triodia pungens Triodia wiseana Mosaic: Hummock grasslands, open low tree steppe; desert bloodwood and feathertop spinifex (on) sandhills / Hummock grasslands, shrub steppe; mixed shrubs over spinifex between sandhills	676020	53
Hs-01a	a3hS rt2Hi	Hummock grasslands, shrub steppe; Acacia coriacea	283831	21
Hs-01e	a/nSr t/pHi	& hakea over hard spinifex Triodia basedowii	121049	10
Hs-03a	a2Sr t2Hi	Hummock grasslands, shrub steppe; mixed shrubs over spinifex between sandhills	857	0
SC-02d sl	mSi xCi n/a	Hummock grasslands, shrub-steppe; kanji over Triodia basedowii Succulent steppe; teatree scrub over saltflats Bare areas; salt lakes	11551	1
			47630	2
			1282816	
Calm Estate Name : Rugged Hills Nature Reserve Lat: -31.51212 Long: 116.3948 District: Mundaring		PI Number: 21429		
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	151	60
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	103	41
			254	
Calm Estate Name : Sabina Nature Reserve Lat: -33.64991 Long: 115.3972 District: Busselton		PI Number: 31188		
HopkinCode	BeardsCode	Description	Area	%
Li-08a	agLi	Low woodland; Agonis flexuosa	3	6
Ti-01a	e4Ti	Tall woodland; tuart	4	9
sl	n/a	Bare areas; salt lakes	40	85
			47	
Calm Estate Name : Salt Lake Nature Reserve Lat: -34.30492 Long: 117.7988 District: Albany		PI Number: 25812		
HopkinCode	BeardsCode	Description	Area	%
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	114	76

Appendix 2 continued

SZ-01b sl	e26SzC n/a	Shrublands; tallerack mallee-heath Bare areas; salt lakes	8 28	5 19
			----- 151	

Calm Estate Name : Sandalwood Block Timber Reserve
Lat: 0 Long: 0 District:
PI Number: 41974

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	17	100
			----- 17	

Calm Estate Name : Sandford Rocks Nature Reserve
PI Number: 1432
Lat: -31.23199 Long: 118.7587 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	119	14
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	402	49
r	n/a	Bare areas; rock outcrops	298	37
			----- 819	

Calm Estate Name : Sawyers Nature Reserve
Lat: -30.33899 Long: 117.0404 District: Merredin
PI Number: 18381

HopkinCode	BeardsCode	Description	Area	%
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	15	100
			----- 15	

Calm Estate Name : Scahill Timber Reserve
Lat: 0 Long: 0 District:
PI Number: 19621

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	3555	52
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	939	13
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	1239	18
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	1052	15
r	n/a	Bare areas; rock outcrops	78	1
			----- 6864	

Calm Estate Name : Scriveners Nature Reserve
Lat: 0 Long: 0 District:
PI Number: 17662

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	777	85
r	n/a	Bare areas; rock outcrops	132	15
			----- 909	

Calm Estate Name : Seagroatt Nature Reserve
Lat: 0 Long: 0 District:
PI Number: 25062

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Cm-01a	e6Mr k1Ci	Succulent steppe; saltbush & scattered york gum	436	38
Mi-05c	e6Mi	Medium woodland; York gum	240	21
SC-01a	e36,66Mp mSc k3Ci	Succulent steppe; yorrell & Kondinin blackbutt sparse woodland, teatree scrub & samphire	477	41
			1152	

Calm Estate Name : Sedimentary Deposits Reserve
Lat: -26.09678 Long: 114.1124 District: Gascoyne

PI Number: 30885

HopkinCode	BeardsCode	Description	Area	%
Ci-02a	k1Ci	Succulent steppe; saltbush	691	19
Ci-03a	k2Ci	Succulent steppe; bluebush	11	0
Ci-03a/Sp-01e	k2Ci/a8,10,11Sp	Mosaic: Succulent steppe; bluebush / Shrublands; Acacia sclerosperma, A. victoriae & snakewood scrub patches	1008	29
Ci-04a	k3Ci	Succulent steppe; samphire	114	2
Hs-06i	a22Sr t9Hi	Hummock grasslands, shrub steppe; Acacia ligulata over Triodia plurinervata	9	0
Si-02a	a3,10Si	Shrublands; waterwood & A. victoriae scrub	14	0
Si-02c	a8,9Si	Shrublands; Acacia sclerosperma & bowgada scrub	167	4
Si-02l	a8,17Si	Shrublands; Acacia sclerosperma & minnieritchie scrub	32	0
Si-02p	a9,17Si	Shrublands; bowgada & minnieritchie scrub	46	1
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	156	4
cl/md	n/a	Bare areas; clatpans, mudflats	1263	33
ds	n/a	Bare areas; drift sand	19	0
			3530	

Calm Estate Name : Shackleton Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 24505

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	8	2
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	456	98
			464	

Calm Estate Name : Shark Bay Marine Park
Lat: 0 Long: 0 District:

PI Number: 7

HopkinCode	BeardsCode	Description	Area	%
CS-01f	aSi k1,3Ci	Succulent steppe; saltbush & samphire with acacia species	31	0
Ci-03a	k2Ci	Succulent steppe; bluebush	245	2
Ci-03a/Sp-01e	k2Ci/a8,10,11Sp	Mosaic: Succulent steppe; bluebush / Shrublands; Acacia sclerosperma, A. victoriae & snakewood scrub patches	134	1
HX-06a	xZHc	Hummock grassland; shrub Steppe; mixed ericoid	3450	25
Hs-06i	a22Sr t9Hi	Hummock grassland; shrubs & spinifex, Hummock grasslands, shrub steppe; Acacia ligulata over Triodia plurinervata	744	5
SZ-02c	aSZc	Shrublands; Acacia scrub-heath a	645	3
SZ-03j/Si-02y	xSZc/aSi	Mosaic: Shrublands; scrub-heath / Shrublands; acacia various species scrub	12	0
Sc-02d	a22Sc	Shrublands;Acacia ligulata x rostellifera thicket	287	2
Sc-02e	a23Sc	Shrublands; Acacia rostellifera thicket	111	0
Sc-09a	a Sc	Shrublands; Acacia-Lamarchea thicket	824	6
Si-02c	a8,9Si	Shrublands; Acacia sclerosperma & bowgada scrub	44	0
Si-02j/Zp-01a	a8,10,11Si/xZp	Mosaic: Shrublands; Acacia sclerosperma, A. victoriae & snakewood scrub / Shrublands; patches	322	1

Appendix 2 continued

si-02m/si-02d	a9si/a8,9,10si	of low mixed scrub Mosaic: Shrublands; bowgada scrub / Shrublands; Acacia sclerosperma, bowgada & A. victoriae scrub	63	0
Si-02w	a9si	Shrublands; bowgada & other acacia scrub	4352	32
Si-04c/Ci-02a	amSi/k1ci	Mosaic: Shrublands; acacia & melaleuca scrub / Succulent steppe; saltbush	1201	8
Sl-02b	a1Lr a9si	Shrublands; bowgada scrub with scattered mulga	513	4
cl/md	n/a	Bare areas; clatpans, mudflats	30	0
ds	n/a	Bare areas; drift sand	422	3
				13431

Calm Estate Name : Shark Lake Nature Reserve
Lat: -33.7682 Long: 121.8585 District: Esperance PI Number: 31197

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	11	100
			11	

Calm Estate Name : Shell Beach Conservation Park
Lat: 0 Long: 0 District: Gascoyne PI Number: 42443

HopkinCode	BeardsCode	Description	Area	%
Ci-03a	k2ci	Succulent steppe; bluebush	33	7
Sc-02d	a22sc	Shrublands; Acacia ligulata x rostellifera thicket	432	92
Si-02w	a9si	Shrublands; bowgada & other acacia scrub	2	0
			467	

Calm Estate Name : Shoalwater Islands Marine Park
Lat: 0 Long: 0 District: PI Number: 5

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	23	100
			23	

Calm Estate Name : Silver Wattle Hill Nature Reserve
Lat: -33.17256 Long: 118.8207 District: Katanning PI Number: 29018

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	804	49
Si-11a	e15Si	Shrublands; mallee scrub E. eremophila	782	47
r	n/a	Bare areas; rock outcrops	70	4
			1656	

Calm Estate Name : Six Mile Road Nature Reserve
Lat: -33.87186 Long: 116.4711 District: Nannup/Kirup PI Number: 26508

HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	16	100
			16	

Calm Estate Name : Ski Lake Nature Reserve
Lat: 0 Long: 0 District: PI Number: 42115

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum Bare areas; salt lakes	82	88
sl	n/a		11	12
				93
Calm Estate Name : Sloss Nature Reserve Lat: 0 Long: 0 District:		PI Number: 13565		
HopkinCode	BeardsCode	Description	Area	%
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	358	100
				358
Calm Estate Name : Snake Gully Nature Reserve Lat: -30.21549 Long: 116.9615 District: Merredin		PI Number: 10351		
HopkinCode	BeardsCode	Description	Area	%
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	207	70
r	n/a	Bare areas; rock outcrops	90	30
				298
Calm Estate Name : Sorensens Nature Reserve Lat: 0 Long: 0 District:		PI Number: 16104		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c SZ-03j/Sc-04a	e6Mi xSzC/c3Sc	Medium woodland; York gum Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	65 42	60 39
				108
Calm Estate Name : South Buniche Nature Reserve Lat: -33.09557 Long: 118.7672 District: Katanning		PI Number: 26763		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j Si-11a	e8,34Mi e15Si	Medium woodland; salmon gum & gimlet Shrublands; mallee scrub E. eremophila	809 507	61 39
				1316
Calm Estate Name : South East Nannup State Forest Lat: 0 Long: 0 District:		PI Number: 57		
Calm Estate Name : South Eneabba Nature Reserve Lat: -29.90697 Long: 115.2521 District: Moora		PI Number: 27886		
HopkinCode	BeardsCode	Description	Area	%
SZ-03c SZ-03f/Li-07f	x4SzC x6SzC/e44Li	Shrublands; scrub-heath on lateritic sandplain Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	540 26	68 3
				223
				789

Appendix 2 continued

Calm Estate Name : South Eneabba Nature Reserve Lat: -29.90697 Long: 115.2521 District: Moora	PI Number: 27886			
HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SzC	Shrublands; scrub-heath on lateritic sandplain	1229	18
SZ-03c	x4SzC	Shrublands; scrub-heath on lateritic sandplain	4589	63
Sc-08b	m5Sc	Shrublands; Melaeuca thyoides thicket	29	0
			1330	19
			7177	
Calm Estate Name : South Jingalup Nature Reserve Lat: -34.03143 Long: 117.0009 District: Katanning	PI Number: 17760			
HopkinCode	BeardsCode	Description	Area	%
Mc-01c	e2,3,5Mc	Medium forest; jarrah-marri-wandoo	490	88
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	64	11
			554	
Calm Estate Name : South Keunder Nature Reserve Lat: -32.99232 Long: 118.5424 District: Katanning	PI Number: 27902			
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	205	57
Si-13d/Mi-05d	eSi/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	153	43
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	1	0
			359	
Calm Estate Name : South Kulin Nature Reserve Lat: 0 Long: 0 District:	PI Number: 34833			
HopkinCode	BeardsCode	Description	Area	%
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	13	100
			13	
Calm Estate Name : South Mimegarra Nature Reserve Lat: -30.98325 Long: 115.5078 District: Moora	PI Number: 30618			
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	298	84
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	55	15
			352	
Calm Estate Name : South Sister Nature Reserve Lat: -34.81155 Long: 118.1492 District: Albany	PI Number: 27139			
HopkinCode	BeardsCode	Description	Area	%
Lc-06a	e2Lc	Low forest; jarrah	303	88
Lc-06c	eclc	Low forest; jarrah & casuarina	40	12
			343	
Calm Estate Name : South Stirling Nature Reserve	PI Number: 26688			

Appendix 2 continued

Lat: -34.56656 Long: 118.2142 District: Albany

HopkinCode	BeardsCode	Description	Area	%
SZ-01a	e2SZc	Shrublands; jarrah mallee-heath	1630	96
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	76	4
			1706	

Calm Estate Name : South Wilgoyne Nature Reserve PI Number: 30705

Lat: -30.81026 Long: 118.473 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	118	100
			118	

Calm Estate Name : Southern Beekeepers Nature Reserve PI Number: 36053

Lat: -30.4197 Long: 115.1025 District: Moora

HopkinCode	BeardsCode	Description	Area	%
SZ-03i	x9SZc	Shrublands; scrub-heath	7025	62
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	3686	33
ds	n/a	Bare areas; drift sand	447	5
			11158	

Calm Estate Name : Sparks Road Nature Reserve PI Number: 13232

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	3	15
Sc-09h	xSc	Shrublands; thicket other spp	17	85
			21	

Calm Estate Name : Speddingup East Nature Reserve PI Number: 25958

Lat: -33.51379 Long: 121.7646 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	69	100
			69	

Calm Estate Name : Springdale Nature Reserve PI Number: 28168

Lat: -33.81243 Long: 120.949 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SZc	Shrublands; tallerack mallee-heath	23	99
Si-07a	mSi	Shrublands; teatree scrub		1
			23	

Calm Estate Name : St. Ronans Nature Reserve PI Number: 30591

Lat: -31.87856 Long: 116.5937 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	120	100

			120	

Calm Estate Name : Stirling Range National Park
 Lat: 0 Long: 0 District: Albany PI Number: 1090

HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	110	0
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	27	0
Hs-04a	a2Srt1,2Hi	Hummock grasslands, shrub-steppe; kanji over T. pungens & T. basedowii	3442	3
Lc-06b	e2,67Lc	Low forest; jarrah & Eucalyptus decipiens	1392	1
Li-07a	e2Li	Low Woodland; jarrah	11058	7
Li-07e	e67Li	Low woodland; Eucalyptus decipiens	561	0
Li-13a	mLi	Low woodland; paperbark, melaleuca	28	0
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	678	0
Mi-01a	e2,3Mi	Medium woodland; jarrah & marri	7456	5
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	8400	7
Mi-01d	e2,5Mi	Medium woodland; jarrah-wandoo	62	0
Mi-01t	e5Mi	Medium woodland; small wandoo patches surrounded by e2, 5 mi; e5, 7mi	150	0
Mi-09a	e7Mi	Medium woodland; yate	513	0
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate	356	0
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	984	0
SZ-01a	e2SzC	Shrublands; jarrah mallee-heath	36301	31
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	31091	25
SZ-01e	enSzC	Shrublands; mallee-heath e	5010	4
SZ-03j	xSzC	Shrublands; scrub-heath	103	0
Sc-09h	xSc	Shrublands; thicket other spp	2359	1
Si-13b	e27,67Si	Shrublands; mallee scrub, black marlock & Eucalyptus decipiens	1227	2
Si-14a	e28Si	Shrublands; mallee scrub Eucalyptus nutans	69	0
Sm-01c	e6Mr m5Sc	Shrublands; Melaleuca thyoides thicket with scattered York gum	203	0
f1	n/a	Bare areas; freshwater lakes	1108	0
kg-01a	tLb a1Gc	Grasslands, tall bunch grass savanna, sparse low tree, terminalia; mitchell grass	61	0
sl	n/a	Bare areas; salt lakes	1292	0
			18	0
			114058	

Calm Estate Name : Stockyard Gully Reserve
 Lat: -29.9293 Long: 115.099 District: Moora PI Number: 36419

HopkinCode	BeardsCode	Description	Area	%
SZ-03d	x5SzC	Shrublands; scrub-heath on deep sandy flats	106	8
SZ-03f/Li-07f	x6SzC/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; ilyarrie	166	12
Sc-08b	m5Sc	Shrublands; Melaeuca thyoidesthicket	105	8
Sl-03c	e6Lr a9Si	Shrublands; bowgada scrub with scattered York gum	1001	72
f1	n/a	Bare areas; freshwater lakes	16	0
			1394	

Calm Estate Name : Stokes National Park
 Lat: -33.8283 Long: 121.1124 District: Esperance PI Number: 32590

HopkinCode	BeardsCode	Description	Area	%
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	173	1
SZ-03j	xSzC	Shrublands; scrub-heath	7135	83
Si-08a	eaSi	Shrublands; mallee & acacia scrub on coastal dunes	818	10
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	16	0
ds	n/a	Bare areas; drift sand	53	0
sl	n/a	Bare areas; salt lakes	341	3

Appendix 2 continued

8536

Calm Estate Name : Strathmore Hill Nature Reserve PI Number: 40933
 Lat: -33.60942 Long: 117.3599 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	167	97
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	5	3
			172	

Calm Estate Name : Stretton Road Nature Reserve PI Number: 10772
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Si-13d	e10,27Si	Shrublands; mallee scrub, redwood & black marlock	59	100
			59	

Calm Estate Name : Swan Estuary Marine Park PI Number: 4
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	36	99
			36	

Calm Estate Name : Swan Island Nature Reserve PI Number: 34257
 Lat: -16.35038 Long: 123.043 District: West Kimberley

HopkinCode	BeardsCode	Description	Area	%
kgl-01e	e24,49Lr pGc	Grasslands, curly spinifex, low tree savanna; bloodwood (<i>E.dichromophloia</i>) & woollybutt over Plectrachne pungens on islands	16	100
			16	

Calm Estate Name : Swan Lagoon Nature Reserve PI Number: 8019
 Lat: -33.27108 Long: 121.6426 District: Esperance

HopkinCode	BeardsCode	Description	Area	%
Si-11e	e15,32Si	Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & Forrests marlock	344	99
			344	

Calm Estate Name : Sweetman Nature Reserve PI Number: 32906
 Lat: -29.50827 Long: 115.6569 District: Moora

HopkinCode	BeardsCode	Description	Area	%
Sl-01c	e5,45Li cdSc	Shrublands; casuarina & dryandra thicket with scattered wandoo and powderbark wandoo on laterite	64	100
			64	

Calm Estate Name : Taarblin Lake Nature Reserve PI Number: 9550
 Lat: 0 Long: 0 District:

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Li-02a	a1Li	Low woodland; mulga	63	7
Mi-05c	e6Mi	Medium woodland; York gum	70	7
SC-02b	mSc k3Ci	Succulent steppe; teatree thicket over samphire	8	1
sl	n/a	m5 Bare areas; salt lakes	878	87
			1019	

Calm Estate Name : Takenup Road Nature Reserve
Lat: -34.74299 Long: 117.998 District: Albany PI Number: 26564

HopkinCode	BeardsCode	Description	Area	%
Lc-06a	e2Lc	Low forest; jarrah	10	100
			10	

Calm Estate Name : Tammin Railway Dam Nature Reserve
Lat: -31.66573 Long: 117.5465 District: Merredin PI Number: 23566

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	28	10
Sm-01f	e5Mr c3Sc	Shrublands; thicket with scattered wandoo	201	79
r	n/a	Bare areas; rock outcrops	26	10
			255	

Calm Estate Name : Tank Hill Nature Reserve
Lat: -31.4574 Long: 118.4068 District: Merredin PI Number: 30428

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34/e8,34	Medium woodland- mixed; York gum, salmon gum & gimlet with salmon gum & gimlet	272	46
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	329	54
			600	

Calm Estate Name : Tapper Road Nature Reserve
Lat: 0 Long: 0 District: PI Number: 33713

HopkinCode	BeardsCode	Description	Area	%
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	118	100
			118	

Calm Estate Name : Tarin Rock Nature Reserve
Lat: -33.12013 Long: 118.1782 District: Katanning PI Number: 25711

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	1906	94
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	5	0
Si-13d/Mi-05i	e10,27Si/e8,34Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; wandoo & gimlet	87	4
			1998	

Calm Estate Name : Tathra National Park PI Number: 29802

Appendix 2 continued

Lat: -29.81716 Long: 115.4956 District: Moora

HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SZc	Shrublands; scrub-heath on lateritic sandplain	3719	86
Sc-08a	m6Sc	Shrublands; Melaeuca uncinata thicket	42	1
			624	16
			4385	

Calm Estate Name : Tent Island Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 42758

HopkinCode	BeardsCode	Description	Area	%
A-01a	mangrove	Low forest; mangroves(Kimberley), /Scrub; mangroves (Pilbara)	892	100
			892	

Calm Estate Name : Tenterden Nature Reserve
Lat: -34.36205 Long: 117.5619 District: Albany

PI Number: 30774

HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	86	100
			86	

Calm Estate Name : The Fourty Four Mile Nature Reserve
Lat: -28.67055 Long: 115.2176 District: Geraldton

PI Number: 1017

HopkinCode	BeardsCode	Description	Area	%
Sc-01d/SZ-03d	acSc/x3SZc	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats	556	100
			556	

Calm Estate Name : The Tubbs Nature Reserve
Lat: -28.1875 Long: 114.8559 District: Geraldton

PI Number: 34140

HopkinCode	BeardsCode	Description	Area	%
SZ-03b	x3SZc	Shrublands; scrub-heath on sandplain	13	100
			13	

Calm Estate Name : The Wongan Hills Nature Reserve
Lat: -30.80457 Long: 116.6334 District: Merredin

PI Number: 33530

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	109	26
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	1	0
Sc-09b	c3dSc	Shrublands; Tamma & Dryandra thicket	310	74
			421	

Calm Estate Name : Thomsons Lake Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 15556

HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low	280	51

Appendix 2 continued

Mi-02b fl	e2,4Mi n/a	woodland; banksia & casuarina Medium woodland; tuart & tuart-jarrah Bare areas; freshwater lakes	39 225	8 41
			544	
Calm Estate Name : Thomsons Lake Nature Reserve Lat: 0 Long: 0 District:		PI Number: 15556		
HopkinCode	BeardsCode	Description	Area	%
Lm-01d	e2Mb cbLi	Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina	13	100
			13	
Calm Estate Name : Three Swamps Nature Reserve Lat: -34.22017 Long: 117.9424 District: Katanning		PI Number: 26162		
HopkinCode	BeardsCode	Description	Area	%
Mi-09a Si-13a sl	e7Mi e27Si n/a	Medium woodland; yate Shrublands; mallee scrub, black marlock Bare areas; salt lakes	55 221 82	16 62 23
			358	
Calm Estate Name : Throssell Nature Reserve Lat: -31.62215 Long: 116.856 District: Mundaring		PI Number: 7220		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	34	100
			34	
Calm Estate Name : Timberfield Lat: 0 Long: 0 District:		PI Number:		
HopkinCode	BeardsCode	Description	Area	%
Cm-01b	e8,34Mr k2Ci	Succulent steppe; bluebush & scattered salmon gum & gimlet	5033	1
HS-01a	e22Si t8Hi	Hummock grasslands, mallee steppe; red mallee over spinifex Triodia scariosa	127	0
HS-01a	eSi t8Hi	Hummock grasslands, mallee steppe; red mallee over spinifex Triodia scariosa	2559	1
Mi-05d Mi-05f Mi-05j Mi-05p	e8Mi e6,8Mi e8,34Mi e6,8,9,34,35Mi	Medium woodland; salmon gum Medium woodland; York gum & salmon gum Medium woodland; salmon gum & gimlet Medium woodland; wandoo, salmon gum, morrel, gimlet & blackbutt	1984 44 122131 97955	1 0 35 31
Mi-06a SZ-03j Sc-01d	e10,11Mi xSzC anSc/cSc	Medium woodland; redwood & merrit Shrublands; scrub-heath Shrublands; thicket, acacia-casuarina alliance species	96 118 1609	0 0 0
Sc-02b Sc-02l	a14Sc anSc	Shrublands; Acacia quadrimarginea thicket Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	4099 57619	0 14
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	3907	1
Si-03d Si-03d sl	a15Si a15Si n/a n/a	Shrublands; Acacia brachystachya scrub Shrublands; Acacia brachystachya scrub Bare areas; rock outcrops Bare areas; salt lakes	9019 3728 5045 8462	2 0 0 1
			323534	

Appendix 2 continued

Calm Estate Name : Tinkelelup Nature Reserve Lat: -34.68173 Long: 118.4509 District: Albany			PI Number: 26234	
HopkinCode	BeardsCode	Description	Area	%
Mi-01a	e2,3Mi	Medium woodland; jarrah & marri	52	9
SZ-01a	e2SzC	Shrublands; jarrah mallee-heath	530	91
			582	
Calm Estate Name : Toolibin Nature Reserve Lat: 0 Long: 0 District:			PI Number: 24556	
HopkinCode	BeardsCode	Description	Area	%
Li-02a	a1Li	Low woodland; mulga	139	28
Mi-05c	e6Mi	Medium woodland; York gum	46	9
sl	n/a	Bare areas; salt lakes	311	63
			496	
Calm Estate Name : Toolonga Nature Reserve Lat: -26.77768 Long: 114.9806 District: Gascoyne			PI Number: 40628	
HopkinCode	BeardsCode	Description	Area	%
Li-02a	a1Li	Low woodland; mulga	92	0
Lr-02a/Si-02p/Cp-01a	a1Lr/ a9,17Si/ k1,2Cp	Mosaic: Open low woodland; mulga / Shrublands; bowgada & minnieritchie scrub / Scattered groups of saltbush/bluebush	416	0
Sc-09g	ace70b4xSc	Shrublands; acacia,casuarina, E. eudesmoides, Banksia ashbyi & other mixed species thicket	13247	3
Si-02c	a8,9Si	Shrublands; Acacia sclerosperma & bowgada scrub	2253	1
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	32254	7
Si-04b	a9gSi	Shrublands; bowgada & grevillea scrub	10430	3
Sl-03e	ceLr a9Si	Shrublands; bowgada scrub with scattered eucalyptus sp.& callitris sp.or casuarina	162884	39
Sl-03f	cLr a9Si	Shrublands; bowgada scrub with scattered callitris sp.or casuarina	188687	46
			410262	
Calm Estate Name : Toompup Nature Reserve Lat: -34.01422 Long: 118.4261 District: Albany			PI Number: 15756	
HopkinCode	BeardsCode	Description	Area	%
Mi-09d	e6,7Mi	Medium woodland; York gum & yate	30	14
SZ-01b	e26SzC	Shrublands; tallerack mallee-heath	101	48
Si-11d	e15,27Si	Shrublands; mallee scrub Eucalyptus eremophila & black marlock	80	37
			211	
Calm Estate Name : Torndirrup National Park Lat: -35.0912 Long: 117.8973 District: Albany			PI Number: 24258	
HopkinCode	BeardsCode	Description	Area	%
Li-08a	aLi	Low woodland; Agonis flexuosa	47	1
SZ-02c	aSzC	Shrublands; Acacia scrub-heath	1525	41
Zc-01e	xZc	Shrublands; mixed heath	2211	57
			3784	
Calm Estate Name : Towerrining Nature Reserve Lat: -33.58217 Long: 116.7847 District: Harvey/Collie			PI Number: 24917	

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	165	100
			165	
Calm Estate Name : Truslove North Nature Reserve Lat: -33.34179 Long: 121.7155 District: Esperance		PI Number: 16801		
HopkinCode	BeardsCode	Description	Area	%
Si-11a	e15Si	Shrublands; mallee scrub <i>E. eremophila</i>	96	45
Si-11e	e15,32Si	Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & Forrests marlock	118	55
			214	
Calm Estate Name : Truslove Townsite Nature Reserve Lat: -33.36913 Long: 121.7358 District: Esperance		PI Number: 27985		
HopkinCode	BeardsCode	Description	Area	%
Si-07a	mSi	Shrublands; teatree scrub	2270	38
Si-11a	e15Si	Shrublands; mallee scrub <i>E. eremophila</i>	3785	63
Si-11e	e15,32Si	Shrublands; mallee scrub <i>Eucalyptus eremophila</i> & Forrests marlock	6	0
Si-13a	e27Si	Shrublands; mallee scrub, black marlock	9	0
			6070	
Calm Estate Name : Tuart Forest Lat: -33.63143 Long: 115.4426 District: Busselton		PI Number: 40250		
HopkinCode	BeardsCode	Description	Area	%
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	233	25
Sc-08d	mSc	Shrublands; teatree thicket	34	4
Ti-01a	e4Ti	Tall woodland; tuart	547	57
Zc-01e	xZc	Shrublands; mixed heath	98	10
sl	n/a	Bare areas; salt lakes	40	4
			952	
Calm Estate Name : Tunnel Creek National Park Lat: -17.61308 Long: 125.1428 District: West Kimberley		PI Number: 26890		
HopkinCode	BeardsCode	Description	Area	%
Hi-01c	aMb t3Hr	Hummock grasslands, sparse medium tree steppe; <i>Andersonia gregorii</i> over open <i>T. wiseana</i> on LST	73	79
kG-02a	a27b1Lb a1Gc/cdGc	Grasslands, tall bunch grass savanna sparse low tree; <i>Acacia suberosa</i> & <i>bauhinia</i> over mitchell & ribbon/blue grass on black soil	19	21
			92	
Calm Estate Name : Tutanning Nature Reserve Lat: 0 Long: 0 District:		PI Number: 25555		
HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	936	35
Mi-05c	e6Mi	Medium woodland; York gum	665	28
Zc-02a	dZc	Shrublands; dryandra heath	702	26
r	n/a	Bare areas; rock outcrops	53	2

Appendix 2 continued

2356

Calm Estate Name : Twin Swamps Nature Reserve Lat: 0 Long: 0 District:			PI Number: 27621	
HopkinCode	BeardsCode	Description	Area	%
Li-09a	bli	Low woodland; banksia	138	88
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	18	11
			157	
Calm Estate Name : Two Peoples Bay Nature Reserve Lat: -34.97125 Long: 118.1328 District: Albany			PI Number: 27956	
HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	213	4
Li-12d	e2,65 c7Lc	Low woodland; jarrah, E. decipiens & Allocasuarina fraseriana	395	7
SZ-02c	aSZc	Shrublands; Acacia scrub-heath	2508	56
Zc-01e	xZc	Shrublands; mixed heath	186	4
ds	n/a	Bare areas; drift sand	357	8
fl	n/a	Bare areas; freshwater lakes	307	7
r	n/a	Bare areas; rock outcrops	535	12
			4501	
Calm Estate Name : Twongkup Nature Reserve Lat: -34.32571 Long: 117.4427 District: Katanning			PI Number: 2096	
HopkinCode	BeardsCode	Description	Area	%
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo	1	2
Mi-09c	e5,7Mi	Medium Woodland; wandoo & yate	80	99
			81	
Calm Estate Name : Twyata Nature Reserve Lat: -30.35894 Long: 115.4867 District: Moora			PI Number: 27277	
HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	134	91
Zc-02a/SZ-04a	dZc/hSZc	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	12	8
			147	
Calm Estate Name : Udamung Nature Reserve Lat: -31.1755 Long: 116.1747 District: Mundaring			PI Number: 965	
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	203	100
			203	
Calm Estate Name : Ulva Nature Reserve Lat: -31.59704 Long: 118.1863 District: Merredin			PI Number: 24835	
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	24	42
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana	34	58

Appendix 2 continued

mallee scrub

57

Calm Estate Name : Urawa Nature Reserve PI Number: 33466
 Lat: -28.2917 Long: 115.6197 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Si-02q	a9,19Si	Shrublands; bowgada & jam scrub	87	2
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	5102	99
			5189	

Calm Estate Name : Utcha Well Nature Reserve PI Number: 640
 Lat: -28.08674 Long: 114.1975 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Lc-01a	a23Lc	Low forest; Acacia rostellifera	125	97
Sc-02e	a23Sc	Shrublands; Acacia rostellifera thicket	4	3
			129	

Calm Estate Name : Victoria Rock Nature Reserve PI Number: 8480
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	0	
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	81	33
r	n/a	Bare areas; rock outcrops	165	67
			246	

Calm Estate Name : Wagin Lake Nature Reserve PI Number: 13279
 Lat: -33.32724 Long: 117.3401 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	0	
SCm-01c	e5,8c6Mr mSi k3ci	Succulent steppe; wandoo, salmon gum & Allocasuarina obesa open woodland, teatree scrub & samphire	43	38
st	n/a	Bare areas; salt lakes	72	62
			115	

Calm Estate Name : Wahkinup Nature Reserve PI Number: 9708
 Lat: -33.9066 Long: 116.7564 District: Nannup/Kirup

HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	25	31
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	54	69
			78	

Calm Estate Name : Walbyring Nature Reserve PI Number: 14398
 Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Li-02a	a1Li	Low woodland; mulga	69	48

Appendix 2 continued

Mi-05c st	e6Mi n/a	Medium woodland; York gum Bare areas; salt lakes	28 46	20 32
			----- 143	

Calm Estate Name : Walcancobbing Nature Reserve
PI Number: 35413
Lat: -31.24207 Long: 117.8972 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	110	19
SZ-03j/Sc-04a	xSZc/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; Allocasuarina campestris thicket	0	
Sp-02a/Ci-04a	mSp/k3Ci	Mosaic: Shrublands; melaleuca patchy scrub / Succulent steppe; samphire	481	81
			----- 592	

Calm Estate Name : Walk Walkin Nature Reserve
Lat: -30.8112 Long: 117.3193 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Mi-05m	e6,8,34Mi	Medium woodland; York gum, salmon gum & gimlet	87	37
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire	144	60
Sc-05a	ecSc	Shrublands; mallee & casuarina thicket	9	4
			----- 240	

Calm Estate Name : Wallaby Hills Nature Reserve
Lat: -31.84755 Long: 116.9807 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	80	66
SZ-03j	xSZc	Shrublands; scrub-heath	41	34
			----- 121	

Calm Estate Name : Wallaby Rocks Timber Reserve
PI Number: 19764
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-06m/HS-01a	e8,22Mi/e22Sr t8Hi	Mosaic: Medium woodland; salmon gum & red mallee / Hummock grasslands, mallee steppe; red mallee over spinifex Triodia scariosa	4517	100
			----- 4517	

Calm Estate Name : Wallambin Nature Reserve
Lat: -31.0188 Long: 117.4949 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Ci-04a	k3Ci	Succulent steppe; samphire	14	12
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	3	2
sl	n/a	Bare areas; salt lakes	107	86
			----- 124	

Appendix 2 continued

Calm Estate Name : Walyahmoning Nature Reserve Lat: -30.61249 Long: 118.7493 District: Merredin			PI Number: 35752	
HopkinCode	BeardsCode	Description	Area	%
Cm-01b	e8,34Mr k2Ci	Succulent steppe; bluebush & scattered salmon gum & gimlet	202	0
Mi-05c	e6Mi	Medium woodland; York gum	165	1
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	7997	38
Sc-02l	anSc	Shrublands; <i>Acacia neurophylla</i> , <i>A. beauverdiana</i> & <i>A. resinomarginata</i> thicket	9436	44
Si-03d	a15Si	Shrublands; <i>Acacia brachystachya</i> scrub	2988	12
r	n/a	Bare areas; rock outcrops	219	0
			21008	
Calm Estate Name : Walyormouring Nature Reserve Lat: -31.15284 Long: 116.8724 District: Merredin			PI Number: 17186	
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	3	1
SC-02a	m5Sc k3Ci	Succulent steppe; <i>Melaleuca thyoides</i> thicket over samphire	1	0
sl	n/a	Bare areas; salt lakes	296	99
			300	
Calm Estate Name : Wambyn Nature Reserve Lat: -31.90111 Long: 116.634 District: Mundaring			PI Number: 21981	
HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	213	100
Mi-05c	e6Mi	Medium woodland; York gum	1	0
			213	
Calm Estate Name : Wamenusking Nature Reserve Lat: 0 Long: 0 District:			PI Number: 16346	
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	10	21
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; <i>Allocasuarina campestris</i> thicket	38	79
			49	
Calm Estate Name : Wanagarren Nature Reserve Lat: -30.761 Long: 115.2157 District: Moora			PI Number: 31675	
HopkinCode	BeardsCode	Description	Area	%
Zc-01a/Sc-03b	a26m4Zc/a23m3Sc	Mosaic: Shrublands; <i>Acacia lasiocarpa</i> & <i>Melaleuca acerosa</i> heath / Shrublands; <i>Acacia rostellifera</i> & <i>Melaleuca cardiophylla</i> thicket	10261	91
ds	n/a	Bare areas; drift sand	902	7
			11164	
Calm Estate Name : Wandana Nature Reserve Lat: -28.13306 Long: 115.2677 District: Geraldton			PI Number: 36388	
HopkinCode	BeardsCode	Description	Area	%
SZ-03a	x2SzC	Shrublands; scrub-heath on coastal association	1059	2

Appendix 2 continued

SZ-03b	x3SzC	Shrublands; scrub-heath on sandplain	15104	28
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	14949	27
Sc-01d/SZ-03d	acSc/x3SzC	Mosaic: Shrublands; thicket, acacia-casuarina alliance / Shrublands; scrub-heath on deep sandy flats	22318	41
Si-02x	anSi	Shrublands; acacia species, general or numerous scrub	770	0
Sm-03b	e6c5Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered casuarina & York gum	2	0
Sm-04a	e6Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum	155	0
Sm-04b	e6,22Mr eaSi	Shrublands; mallee & acacia scrub with scattered York gum & red mallee	30	0
				54386

Calm Estate Name : Wandjagill Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 25884

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	228	30
SC-01a	e36,66Mp mSc k3Ci	Succulent steppe; yorrell & Kondinin blackbutt sparse woodland, teatree scrub & samphire	535	70
				763

Calm Estate Name : Wandoora Nature Reserve
Lat: -34.19114 Long: 116.9126 District: Katanning

PI Number: 16568

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	22	100
				22

Calm Estate Name : Wangeling Nature Reserve
Lat: -33.22084 Long: 117.0914 District: Katanning

PI Number: 9098

HopkinCode	BeardsCode	Description	Area	%
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	86	101
				86

Calm Estate Name : Wanjarri Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 30897

HopkinCode	BeardsCode	Description	Area	%
Hs-09b	a1e21Sr t2Hi	Hummock grasslands, shrub steppe; mulga and Eucalyptus kingsmillii over hard spinifex Triodia basedowii	13539	26
Li-02a	a1Li	Low woodland; mulga	39602	75
Si-01a	a1Si	Shrublands; mulga scrub	182	0
				53323

Calm Estate Name : Wannamal Nature Reserve
Lat: 0 Long: 0 District:

PI Number: 39050

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	26	100
				26

Appendix 2 continued

Calm Estate Name : Wanneroo State Forest Lat: 0 Long: 0 District:		PI Number: 69
HopkinCode	BeardsCode	Description
Mi-02a	e4Mi	Medium woodland; tuart
		13 100
		13
Calm Estate Name : Wansbrough Nature Reserve Lat: -34.15019 Long: 117.6665 District: Katanning		PI Number: 35428
HopkinCode	BeardsCode	Description
CL-01a	mLi k3Ci	Succulent steppe; myoporum low woodland over samphire
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate
		85 86
		98
Calm Estate Name : Wardering Lake Nature Reserve Lat: -33.53089 Long: 117.247 District: Katanning		PI Number: 17258
HopkinCode	BeardsCode	Description
Mi-09c	e5,7Mi	Medium woodland; wandoo & yate
sl	n/a	Bare areas; salt lakes
		14 32
		30 68
		43
Calm Estate Name : Warramuggan Nature Reserve Lat: -30.97198 Long: 117.4501 District: Merredin		PI Number: 16040
HopkinCode	BeardsCode	Description
Ci-04a	k3Ci	Succulent steppe; samphire
ML-01a	e6pMLi	Medium-Low woodland; York gum & Callitris columellaris (cypress pine)
Mp-01c/Ci-02d	e8,36Mp.k1,3Ci	Mosaic: Medium sparse woodland; salmon gum & yorrell / Succulent steppe; saltbush & samphire
sl	n/a	Bare areas; salt lakes
		81 33
		24 10
		245
Calm Estate Name : Warranine Nature Reserve Lat: -31.74584 Long: 116.5362 District: Mundaring		PI Number: 39247
HopkinCode	BeardsCode	Description
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo
		36 100
		36
Calm Estate Name : Warrenup Nature Reserve Lat: -34.34757 Long: 117.2555 District: Katanning		PI Number: 1931
HopkinCode	BeardsCode	Description
Mi-01b	e2,3,5Mi	Medium woodland; jarrah & marri-wandoo
		248 100
		248
Calm Estate Name : Watheroo National Park Lat: -30.34661 Long: 115.8501 District: Moora		PI Number: 24229

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Li-09c	b3Li	Low woodland; Banksia prionotes	14113	31
Mi-05c	e6Mi	Medium woodland; York gum	221	0
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	32	0
SZ-03g	x7SzC	Shrublands; scrub-heath on lateritic sandhills	46	0
SZ-03h	x8SzC	Shrublands; scrub-heath on sandplain	26293	58
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	99	0
Sm-05a	e6Mr eSi	Shrublands; mallee with scattered York gum	1063	2
Zc-02a/SZ-04a	dZc/hSzC	Mosaic: Shrublands; dryandra heath / Shrublands; hakea scrub-heath	3098	5
			44964	

Calm Estate Name : Wattenning Nature Reserve
Lat: -31.31853 Long: 116.5621 District: Mundaring PI Number: 2393

HopkinCode	BeardsCode	Description	Area	%
SZ-03j	xSzC	Shrublands; scrub-heath	82	100
			82	

Calm Estate Name : Weam Nature Reserve
Lat: 0 Long: 0 District: PI Number: 29322

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	89	39
Mi-05c	e6Mi	Medium woodland; York gum	138	61
			227	

Calm Estate Name : Wedge Island Nature Reserve
Lat: -30.82941 Long: 115.1869 District: Moora PI Number: 29254

HopkinCode	BeardsCode	Description	Area	%
Zc-01a/Sc-03b	a26m4Zc/a23n3Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket	100	
			100	

Calm Estate Name : Wedgengully Nature Reserve
Lat: 0 Long: 0 District: PI Number: 246

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	22	100
			22	

Calm Estate Name : Weira Nature Reserve
Lat: 0 Long: 0 District: Merredin PI Number: 42501

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	88	100
			88	

Calm Estate Name : Wellard Nature Reserve PI Number: 2547

Appendix 2 continued

Lat: -33.05283 Long: 115.8156 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Mi-01f	e3Mi	Medium woodland; marri	10	100
			10	

Calm Estate Name : Welsh Nature Reserve

Lat: -31.99843 Long: 119.128 District: Merredin

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	1010	58
Si-09c	e6,39Si	Shrublands; York gum & Eucalyptus sheathiana mallee scrub	73	4
Si-13d/Mi-05d	e\$1/e8Mi	Mosaic: Shrublands; mallee scrub, redwood & black marlock / Medium woodland; salmon gum	473	27
Si-9c/Mi-05j	e6,39Si/e8,34Mi	Mosaic: Shrublands; York gum & E.sheathiana mallee scrub / Medium woodland; salmon gum & gimlet	178	10
			1734	

Calm Estate Name : West Perenjori Nature Reserve

Lat: -29.46901 Long: 116.2036 District: Geraldton

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	282	80
Sc-04a	c3Sc	Shrublands; Allocasuarina campestris thicket	69	19
			351	

Calm Estate Name : Westmere Nature Reserve

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	10	56
Mi-01e	e2,5,45Mi	Medium woodland; jarrah-wandoo-powderbark	8	44
			17	

Calm Estate Name : Whin Bin Rock Nature Reserve

Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Ci-01a	xCi	Succulent steppe; heterogeneous spp	18	53
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	16	46
			34	

Calm Estate Name : White Gums Nature Reserve

Lat: -29.76607 Long: 115.3978 District: Moora

HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4\$Zc	Shrublands; scrub-heath on lateritic sandplain	163	100
			163	

Calm Estate Name : White Lake Nature Reserve

Lat: -34.77037 Long: 118.1604 District: Albany

PI Number: 36550

Appendix 2 continued

HopkinCode	BeardsCode	Description	Area	%
Lc-06a	e2Lc	Low forest; jarrah	172	100
			172	

Calm Estate Name : Whitmore Roberts Doole Islands And SandPI Number: 42755ature Reserve
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
A-01a	mangrove	Low forest; mangroves(Kimberley), /Scrub; mangroves (Pilbara)	100	100
			100	

Calm Estate Name : Wialkutting Nature Reserve PI Number: 14194
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	56	84
Sm-01f	e5Mr c3Sc	Shrublands; thicket with scattered wandoo	0	0
r	n/a	Bare areas; rock outcrops	10	15
			66	

Calm Estate Name : Wild Horse Swamp Nature Reserve PI Number: 1740
Lat: -33.67836 Long: 116.7156 District: Harvey/Collie

HopkinCode	BeardsCode	Description	Area	%
Mc-01b	e2,5Mc	Medium forest; jarrah-wandoo	189	62
Mc-01c	e3,5Mi	Medium woodland; marri-wandoo	115	38
			303	

Calm Estate Name : Williams Nature Reserve PI Number: 21521
Lat: 0 Long: 0 District:

HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	211	100
			211	

Calm Estate Name : Willoughby Nature Reserve PI Number: 27289
Lat: -33.59608 Long: 118.4722 District: Katanning

HopkinCode	BeardsCode	Description	Area	%
Mr-02c/ci-02a	e8,9Mr.kfc	Mosaic: Medium open woodland; salmon gum & morrel / Succulent steppe; saltbush	411	59
Si-11d/Mi-05g	e15,27Si/e8,9Mi	Mosaic: Shrublands; mallee scrub Eucalyptus eremophila & black marlock / Medium woodland; salmon gum & morrel	158	23
sl	n/a	Bare areas; salt lakes	130	19

Calm Estate Name : Wills Nature Reserve PI Number: 38420
Lat: -32.37079 Long: 116.7376 District: Mundaring

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-01c	e3,5Mi	Medium woodland; marri-wandoo	25	67
Mi-04a	e5,45Mi	Medium woodland; wandoo-powderbark	12	33
			-----	38

Calm Estate Name : Wilroy Nature Reserve
 Lat: -28.63525 Long: 115.6428 District: Geraldton PI Number: 26196

HopkinCode	BeardsCode	Description	Area	%
Sc-06a	aSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	334	101
			-----	334

Calm Estate Name : Wilson Nature Reserve
 Lat: -29.55371 Long: 115.4451 District: Moora PI Number: 37083

HopkinCode	BeardsCode	Description	Area	%
SZ-03c	x4SZc	Shrublands; scrub-heath on lateritic sandplain	681	63
Sc-08a	m6Sc	Shrublands; Melaeuca uncinata thicket	282	26
			110	11
			-----	1073

Calm Estate Name : Windjana Gorge National Park
 Lat: -17.4266 Long: 124.9764 District: West Kimberley PI Number: 31107

HopkinCode	BeardsCode	Description	Area	%
Hi-01c	aMb t3Hr	Hummock grasslands, sparse medium tree steppe; Andersonia gregorii over open T. wiseana on LST	1045	50
P-02k	no code	Shrublands, pindan; acacia shrubland with scattered low trees over spinifex	1037	50
			-----	2082

Calm Estate Name : Wingedyne Nature Reserve
 Lat: -33.59667 Long: 117.2314 District: Katanning PI Number: 28471

HopkinCode	BeardsCode	Description	Area	%
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	217	85
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	40	17
			-----	256

Calm Estate Name : Wockallarry Nature Reserve
 Lat: -31.45834 Long: 119.2768 District: Merredin PI Number: 29537

HopkinCode	BeardsCode	Description	Area	%
Mi-06r	e8,9,34,39Mi	Medium woodland; salmon gum, morrel, gimlet & E. sheathiana	55	26
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	113	54
r	n/a	Bare areas; rock outcrops	41	19
			-----	210

Calm Estate Name : Wokatherra Nature Reserve
 Lat: -28.65068 Long: 114.6508 District: Geraldton PI Number: 39276

HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Sc-09f	mhSc	Shrublands; mixed thicket	114	99
			-----	114
Calm Estate Name : Wolfe Creek Meteorite Crater	PI Number: 29457			
Lat: -19.1739 Long: 127.7938 District: East Kimberley				
HopkinCode	BeardsCode	Description	Area	%
Hi-01b	e16,24Lr t1Hi	Hummock grasslands, open low tree steppe; snappy gum & bloodwood over soft spinifex Triodia pungens	1469	100

			1469	
Calm Estate Name : Wongamine Nature Reserve	PI Number: 33697			
Lat: -31.49099 Long: 116.5832 District: Mundaring				
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	7	2
Sm-01c	e6Mr m5Sc	Shrublands; Melaleuca thyoides thicket with scattered York gum	292	98

			300	
Calm Estate Name : Wongonderrah Nature Reserve	PI Number: 26248			
Lat: -30.56714 Long: 115.3554 District: Moora				
HopkinCode	BeardsCode	Description	Area	%
Li-09b	b1,2Li	Low woodland; Banksia attenuata & B. menziesii	441	100

			441	
Calm Estate Name : Woodanilling Nature Reserve	PI Number: 13145			
Lat: -33.56787 Long: 117.4741 District: Katanning				
HopkinCode	BeardsCode	Description	Area	%
Mi-04d	e5,64Mi	Medium woodland; wandoo & mallet	19	13
Mi-05b	e5,6,8Mi	Medium woodland; York gum, wandoo & salmon gum	120	86

			139	
Calm Estate Name : Woodnooka Nature Reserve	PI Number: 33475			
Lat: -28.44353 Long: 115.556 District: Geraldton				
HopkinCode	BeardsCode	Description	Area	%
Sc-01d	acSc	Shrublands; thicket, acacia-casuarina alliance species	162	5
Si-02w	a9Si	Shrublands; bowgada & other acacia scrub	689	18
Sm-03b	e6c5Mr a9,19Si	Shrublands; bowgada & jam scrub with scattered casuarina & York gum	2854	78

			3705	
Calm Estate Name : Woodvale Nature Reserve	PI Number: 30809			
Lat: 0 Long: 0 District:				
HopkinCode	BeardsCode	Description	Area	%
Mi-02a	e4Mi	Medium woodland; tuart	11	30
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	27	70

			38	

Appendix 2 continued

Calm Estate Name : Woody Lake Nature Reserve Lat: -33.81177 Long: 121.9122 District: Esperance		PI Number: 15231		
HopkinCode	BeardsCode	Description	Area	%
SZ-03j sl	xSZc n/a	Shrublands; scrub-heath Bare areas; salt lakes	563 3	98 0
			565	
Calm Estate Name : Woorgabup Nature Reserve Lat: -33.56445 Long: 117.9138 District: Katanning		PI Number: 24072		
HopkinCode	BeardsCode	Description	Area	%
Mi-05r	e5,6,9 Mi	Medium woodland; wandoo, York gum & morrell	49	100
			49	
Calm Estate Name : Wotto Nature Reserve Lat: -29.73135 Long: 115.4435 District: Moora		PI Number: 29806		
HopkinCode	BeardsCode	Description	Area	%
SZ-03c Sc-08a	x4SZc m6Sc	Shrublands; scrub-heath on lateritic sandplain Shrublands; Melaeuca uncinata thicket	2326 186 438	79 6 15
			2950	
Calm Estate Name : Woyerling Nature Reserve Lat: 0 Long: 0 District:		PI Number: 10142		
HopkinCode	BeardsCode	Description	Area	%
Mi-01k	e5Mi	Medium woodland; wandoo	15	100
			15	
Calm Estate Name : Wulyaling Nature Reserve Lat: 0 Long: 0 District:		PI Number: 978		
HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	41	100
			41	
Calm Estate Name : Wundowlin Nature Reserve Lat: -30.86929 Long: 118.0637 District: Merredin		PI Number: 22262		
HopkinCode	BeardsCode	Description	Area	%
Mi-05j Sc-04a r	e8,34Mi c3Sc n/a	Medium woodland; salmon gum & gimlet Shrublands; Allocasuarina campestris thicket Bare areas; rock outcrops	30 673 25	4 92 3
			728	
Calm Estate Name : Wyalkatchem Nature Reserve Lat: -31.16518 Long: 117.4112 District: Merredin		PI Number: 23877		
HopkinCode	BeardsCode	Description	Area	%

Appendix 2 continued

Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	69	53
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	62	47
-----				132
Calm Estate Name : Wyening Nature Reserve Lat: -31.17535 Long: 116.5396 District: Moora		PI Number: 23201		
HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	84	100
-----				84
Calm Estate Name : Wyola Nature Reserve Lat: -31.64029 Long: 117.3646 District: Merredin		PI Number: 24831		
HopkinCode	BeardsCode	Description	Area	%
Sp-02a/Ci-04a	mSp/k3Ci	Mosaic: Shrublands; melaleuca patchy scrub /Succulent steppe; samphire	37	100
-----				37
Calm Estate Name : Xantippe Nature Reserve Lat: -30.26836 Long: 117.0291 District: Merredin		PI Number: 20482		
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	1	0
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	15	8
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	170	91
-----				186
Calm Estate Name : Yalgorup National Park Lat: -32.86246 Long: 115.6734 District: Harvey/Collie		PI Number: 11710		
HopkinCode	BeardsCode	Description	Area	%
Li-13a	mLi	Low woodland; paperbark, melaleuca	785	7
Mi-02a	e4Mi	Medium woodland; tuart	3565	39
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	1039	12
SZ-03j	xSzC	Shrublands; scrub-heath	855	9
Ti-01a	e4Ti	Tall woodland; tuart	49	0
Zc-01b	m4Zc	Shrublands; melaleuca heath	773	10
sl	n/a	Bare areas; salt lakes	1393	13
-----				8459
Calm Estate Name : Yallari Timber Reserve Lat: 0 Long: 0 District:		PI Number: 19212		
HopkinCode	BeardsCode	Description	Area	%
Mi-05d	e8Mi	Medium woodland; salmon gum	912	15
Mi-06a	e10,11Mi	Medium woodland; redwood & merrit	1160	19
Mi-06c	e12,13Mi	Medium woodland; coral gum & goldfields blackbutt (also some e10,11,)	2684	44
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	511	9
r	n/a	Bare areas; rock outcrops	847	14

Appendix 2 continued

6114

Calm Estate Name : Yanchep National Park
 Lat: 0 Long: 0 District:

PI Number: 9868

HopkinCode	BeardsCode	Description	Area	%
Gc-01a	xGc	Sedgeland; reed swamps, occasionally with heath	64	3
Li-09a	bli	Low woodland; banksia	1812	63
Mi-02a	e4Mi	Medium woodland; tuart	658	23
Mi-02b	e2,4Mi	Medium woodland; tuart & tuart-jarrah	5	0
Mr-02a	e4Mr	Medium open woodland; tuart	260	9
Zc-01a/Sc-02h	a26m4Zc/a23,32Sc	Mosaic: Shrublands; Acacia lasiocarpa & Melaleuca acerosa heath / Shrublands; Acacia rostellifera & Acacia cyclops thicket	62	2
			2860	

Calm Estate Name : Yandinilling Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 16412

HopkinCode	BeardsCode	Description	Area	%
Mi-04b	e64,45Mi	Medium woodland; powderbark & mallet	52	82
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	12	19
			64	

Calm Estate Name : Yanneymooning Nature Reserve
 Lat: -30.71258 Long: 118.5452 District: Merredin

PI Number: 24465

HopkinCode	BeardsCode	Description	Area	%
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	249	46
Sc-02l	anSc	Shrublands; Acacia neurophylla, A. beauverdiana & A. resinomarginata thicket	290	54
			538	

Calm Estate Name : Yordanogo Nature Reserve
 Lat: -29.40439 Long: 115.0671 District: Moora

PI Number: 36203

HopkinCode	BeardsCode	Description	Area	%
SZ-03f/Li-07f	x6Sz/e44Li	Mosaic: Shrublands; scrub-heath / Low woodland; illyarrie	5129	77
Sc-03b/Lp-01d	a23m3Sc/e44Lp	Mosaic: Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket / Sparse low woodland; illyarrie	1439	22
Sc-08b	m5Sc	Shrublands; Melaleuca thyoides thicket	8	0
Sm-01d	e18Mr m5Sc	Shrublands; Melaleuca thyoides thicket with scattered river gum	135	2
			6711	

Calm Estate Name : Yarding Nature Reserve
 Lat: 0 Long: 0 District:

PI Number: 27108

HopkinCode	BeardsCode	Description	Area	%
Mi-05c	e6Mi	Medium woodland; York gum	29	13
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; York gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	203	87
			232	

Appendix 2 continued

Calm Estate Name : Yarra Yarra Nature Reserve Lat: -29.5981 Long: 115.7606 District: Moora			PI Number: 26442	
HopkinCode	BeardsCode	Description	Area	%
Mi-05f	e6,8Mi	Medium woodland; York gum & salmon gum	258	18
SCM-01a	e6Mi m5Sc k3Ci	Succulent steppe; york gum woodland, Melaleuca thyoides thicket & samphire	38	2
sl	n/a	Bare areas; salt lakes	1111	79
			1407	
Calm Estate Name : Yeal Nature Reserve Lat: 0 Long: 0 District:			PI Number: 31241	
HopkinCode	BeardsCode	Description	Area	%
Cl-02a	a1Lr k1Ci	Succulent steppe; saltbush with open low mulga	74	0
Li-09a	bli	Low woodland; banksia	2492	23
Li-09a/Sc-08d	blI/mSc	Mosaic: Low woodland; banksia / Shrublands; teatree thicket	8187	97
			10753	
Calm Estate Name : Yelbeni Nature Reserve Lat: -31.16892 Long: 117.6585 District: Merredin			PI Number: 15386	
HopkinCode	BeardsCode	Description	Area	%
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	60	73
Sc-06a	anSc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	23	27
			83	
Calm Estate Name : Yellowdine Nature Reserve Lat: -31.28986 Long: 119.7425 District: Merredin			PI Number: 41936	
HopkinCode	BeardsCode	Description	Area	%
CS-01f	aSi k1,3Ci	Succulent steppe; saltbush & samphire with acacia species	223	0
hs-04a	a2Srt1,2Hi	Hummock grasslands, shrub-steppe; kanji over T. pungens & T. basedowii	35	0
Mi-05j	e8,34Mi	Medium woodland; salmon gum & gimlet	19376	53
SZ-03j	xSzC	Shrublands; scrub-heath	3022	8
Sc-06a	c3Sc (=acmSc)	Shrublands; thicket, acacia-casuarina-melaleuca alliance	9127	20
Si-03d	a15Si	Shrublands; Acacia brachystachya scrub	298	0
r	n/a	Bare areas; rock outcrops	541	0
sl	n/a	Bare areas; salt lakes	977	1
			33600	
Calm Estate Name : Yenyening Lakes Nature Reserve Lat: 0 Long: 0 District:			PI Number: 28088	
HopkinCode	BeardsCode	Description	Area	%
Mi-05a	e5,6Mi	Medium woodland; York gum & wandoo	14	0
Mi-05c	e6Mi	Medium woodland; York gum	261	8
Mi-12a	c6Mi	Medium woodland; Casuarina obesa	107	4
SC-01b	e6,66Mp mSc k3Ci	Succulent steppe; york gum & Kondinin blackbutt sparse woodland, teatree scrub & samphire	1691	54
Sc-09h	xSc	Shrublands; thicket other spp	74	2
sl	n/a	Bare areas; salt lakes	961	30

Appendix 2 continued

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Calm Estate Name : Yeo Lake Nature Reserve Lat: 0 Long: 0 District:		PI Number: 36271	
HopkinCode	BeardsCode	Description	Area %
CS-01c	a1Si xCi	Succulent steppe; various species with mulga	4687 1
Ci-01a	xCi	Succulent steppe; heterogeneous spp	11772 3
Hls-02b	e19Lr e20Sr t2Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over hard spinifex <i>Triodia basedowii</i> between sandhills	19081 6
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i>	91678 27
Hls-02d	e19Lr e20Sr t8Hi	Hummock grasslands, open low tree & mallee steppe; marble gum & mallee (<i>E. youngiana</i>) over spinifex <i>Triodia scariosa</i> between sandhills	50880 16
Li-02a	a1Li	Low woodland; mulga	97777 31
Si-12a	e70Si	Shrublands; mallee scrub <i>Eucalyptus eudesmoides</i>	2293 1
Si-15g	eSi	Shrublands; mallee scrub (Great Victoria Desert)	7432 2
sl	n/a	Bare areas; salt lakes	39023 12
			324623
Calm Estate Name : Yilgerin Nature Reserve Lat: 0 Long: 0 District:		PI Number: 35002	
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	46 93
SC-01a	e36,66Mp mSc k3Ci	Succulent steppe; yorrell & Kondinin blackbutt sparse woodland, teatree scrub & samphire	4 7
			49
Calm Estate Name : Yilliminning Nature Reserve Lat: 0 Long: 0 District:		PI Number: 39718	
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	40 99
			40
Calm Estate Name : Yorkrakine Rock Nature Reserve Lat: -31.42274 Long: 117.5123 District: Merredin		PI Number: 23586	
HopkinCode	BeardsCode	Description	Area %
Mi-05n	e5,6,8,9,34Mi	Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet	23 14
SZ-03j/Sc-04a	xS2c/c3Sc	Mosaic: Shrublands; scrub-heath / Shrublands; <i>Allocasuarina campestris</i> thicket	56 35
r	n/a	Bare areas; rock outcrops	79 51
			157
Calm Estate Name : Yornaning Nature Reserve Lat: 0 Long: 0 District:		PI Number: 21230	
HopkinCode	BeardsCode	Description	Area %
Mi-05c	e6Mi	Medium woodland; York gum	70 100
			70

Appendix 2 continued

Calm Estate Name : Yurine Swamp Nature Reserve		PI Number: 9676		
Lat: 0	Long: 0	District:		
HopkinCode	BeardsCode	Description	Area	%
Li-09a/Sc-08d	bL i/mSc	Mosaic: Low woodland; banksia / Shrublands; teatree thicket	29	100
			29	

Calm Estate Name : Zuytdorp Nature Reserve		PI Number: 34771		
Lat: -27.13209	Long: 114.0573	District: Gascoyne		
HopkinCode	BeardsCode	Description	Area	%
LS-01a/SZ-03j	xLSi/xSZc	Mosaic: Shrublands tree-heath between sandhills / Shrublands; scrub-heath	8779	14
SZ-02a	a21SZi	Shrublands; Acacia ligulata scrub-heath	1948	3
SZ-03a/Sp-01g	x2SZc/aSp	Mosaic: Shrublands; scrub-heath on coastal association / Shrublands; acacia patchy scrub	283	0
SZ-03b	x3SZc	Shrublands; scrub-heath on sandhills	3005	5
SZ-03b	x3SZc	Shrublands; scrub-heath on sandplain	9973	15
SL-02b	a1Lr a9Si	Shrublands; bowgada scrub with scattered mulga	36118	54
Zc-01d	x1Zc	Shrublands; heath on coastal LST	5910	9
Zc-01e	xZc	Shrublands; mixed heath	47	0
			66061	