



● Tuart Patch Assessment
 Tuart Canopy
 Survey Area
Tuart Patch
 Tuart TEC
 Not Tuart TEC

Main Roads Western Australia
 Mitchell Freeway Widening Southbound and PSP Mitchell Freeway Gaps Hodges Drive to Reid Highway - Biological Survey



Figure L.2.8: Tuart woodlands and forests of the Swan Coastal Plain

Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 	
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2		

384600

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Figure L.2.9: Tuart woodlands and forests of the Swan Coastal Plain



Author: C. Dyde

Date: 21-05-2020

Drawn: A. Sleep

Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2

Scale: 1:2,000 at A3
 Coordinate System: GDA 1994 MGA Zone 50
 0 20 40 60 80 100 Metres





- Tuart Patch Assessment
- Tuart Canopy
- Survey Area
- Tuart Patch**
- Tuart TEC
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Figure L.2.10: Tuart woodlands and forests of the Swan Coastal Plain

Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2	

384600

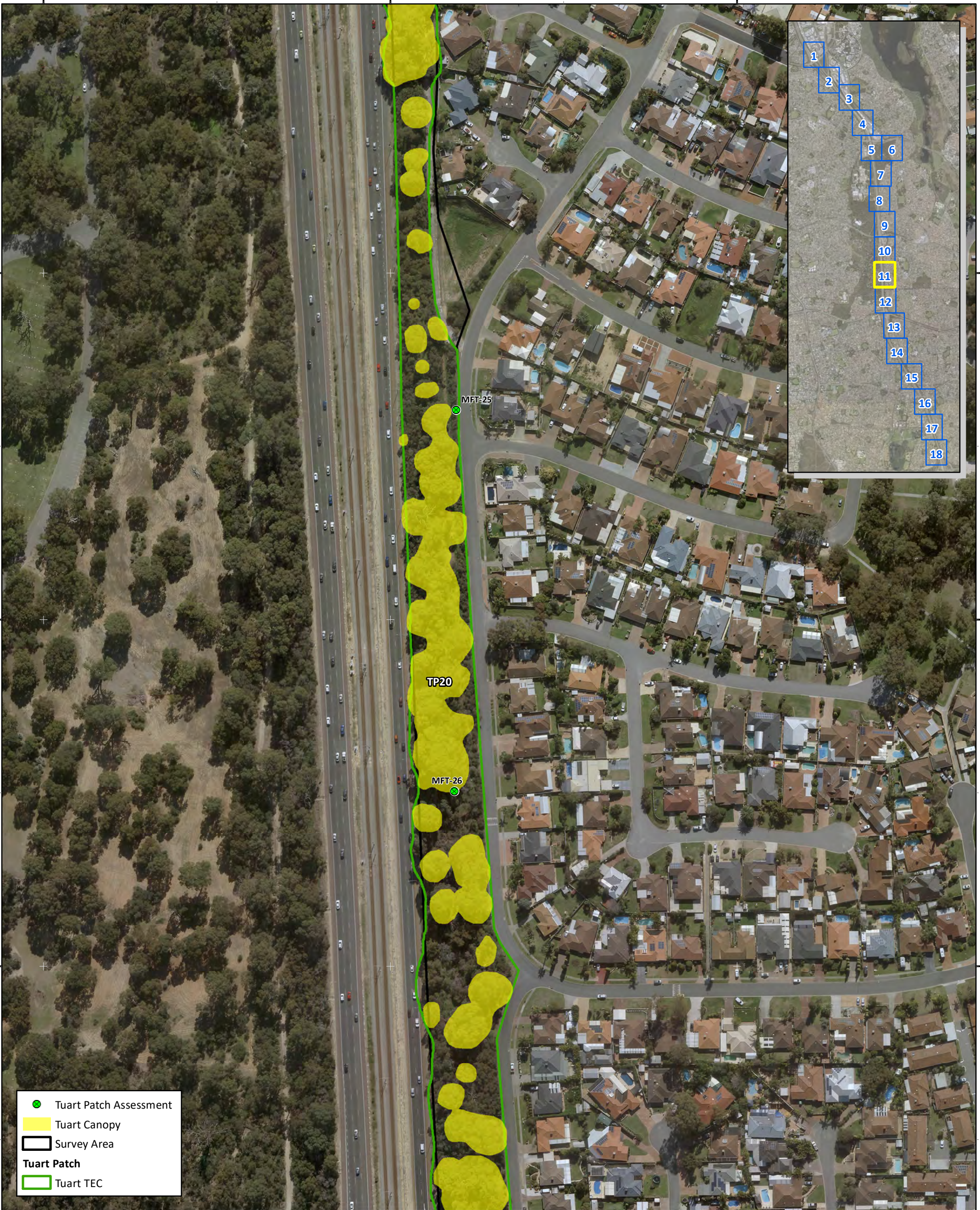
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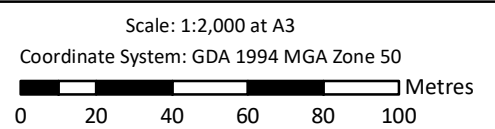
Figure L.2.11: Tuart woodlands and forests of the Swan Coastal Plain

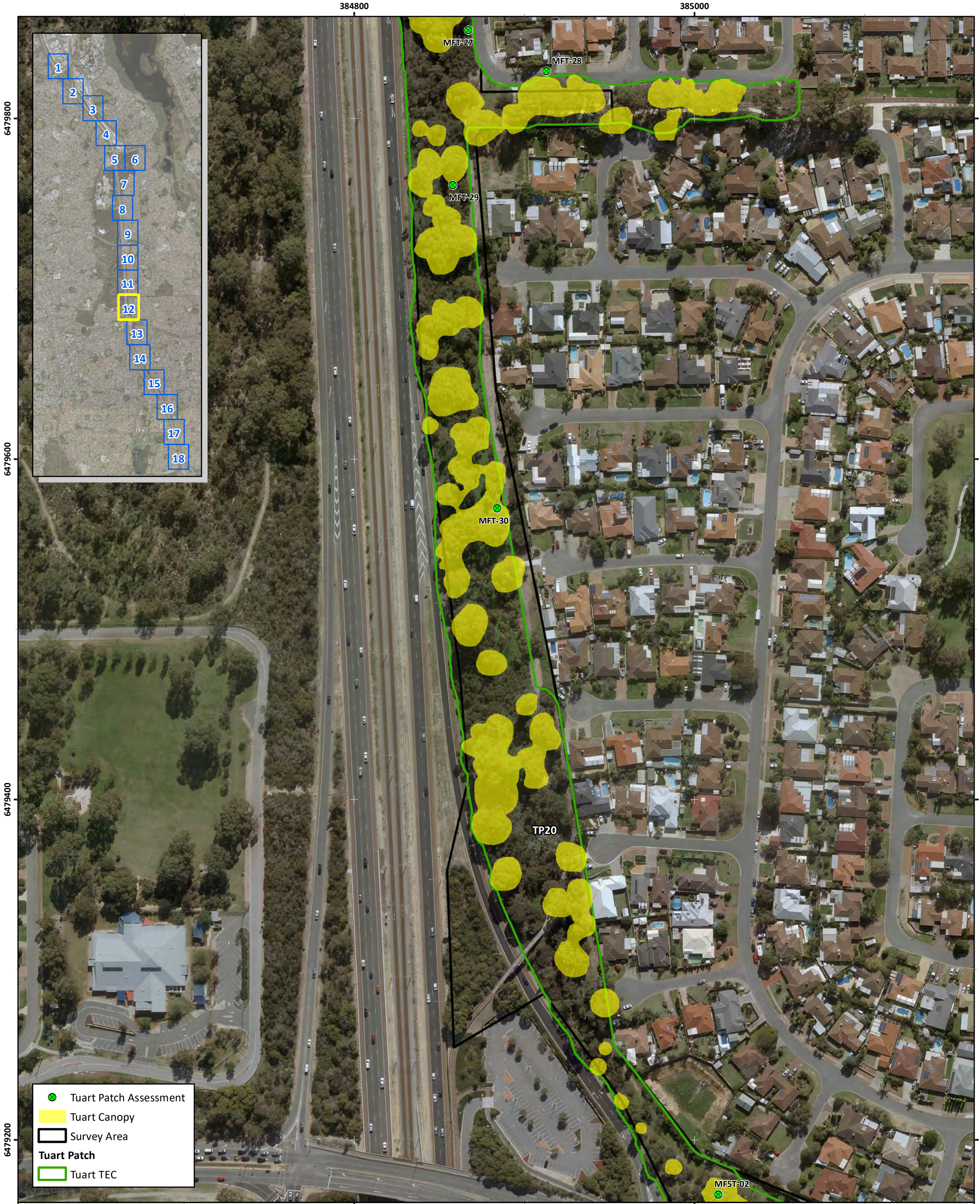
Author: C. Dyde

Date: 21-05-2020

Drawn: A. Sleep

Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2

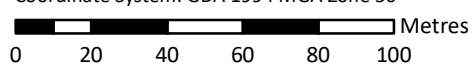


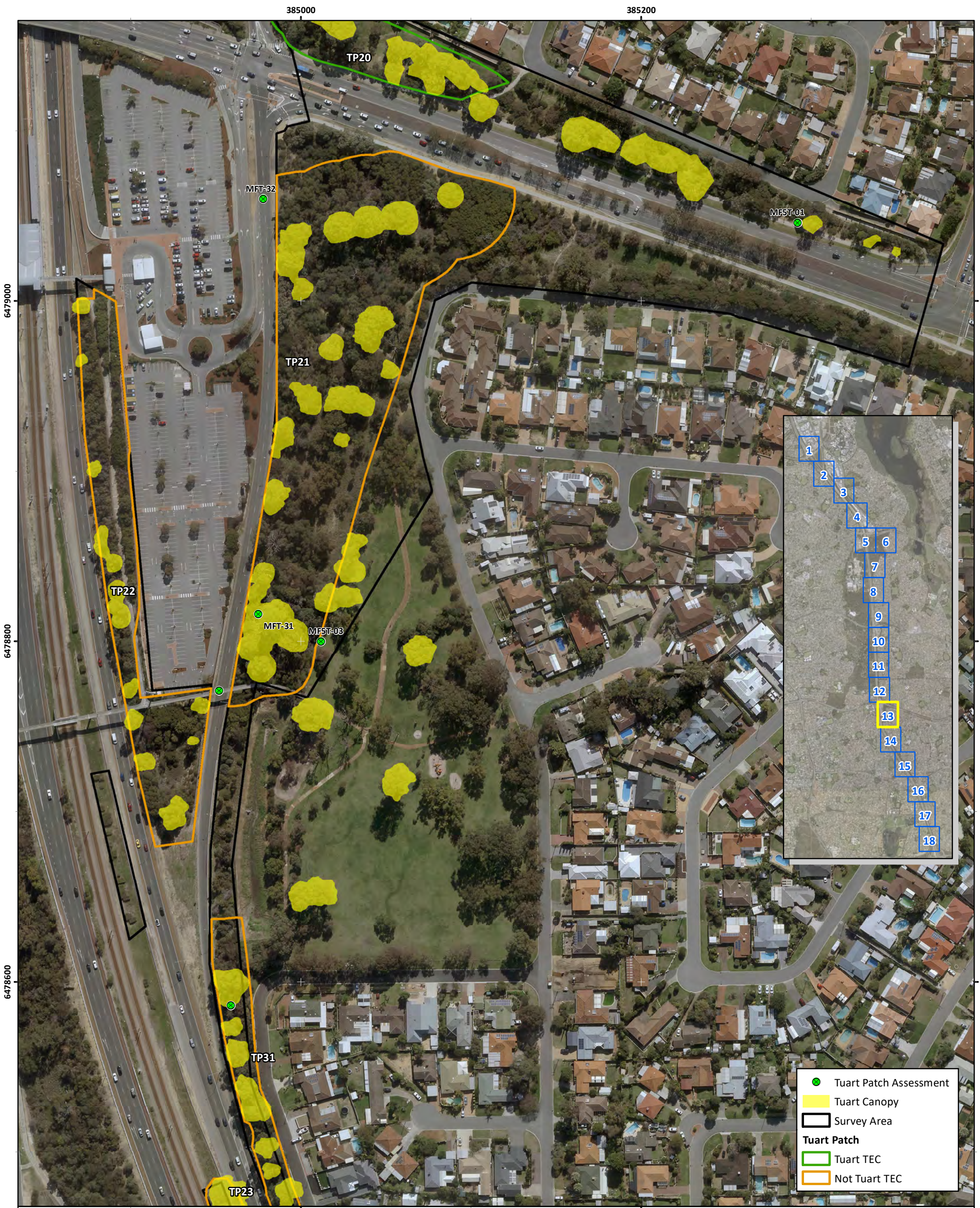


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Figure L.2.12: Tuart woodlands and forests of the Swan Coastal Plain

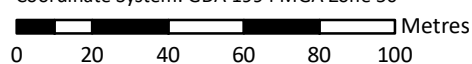
Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2	



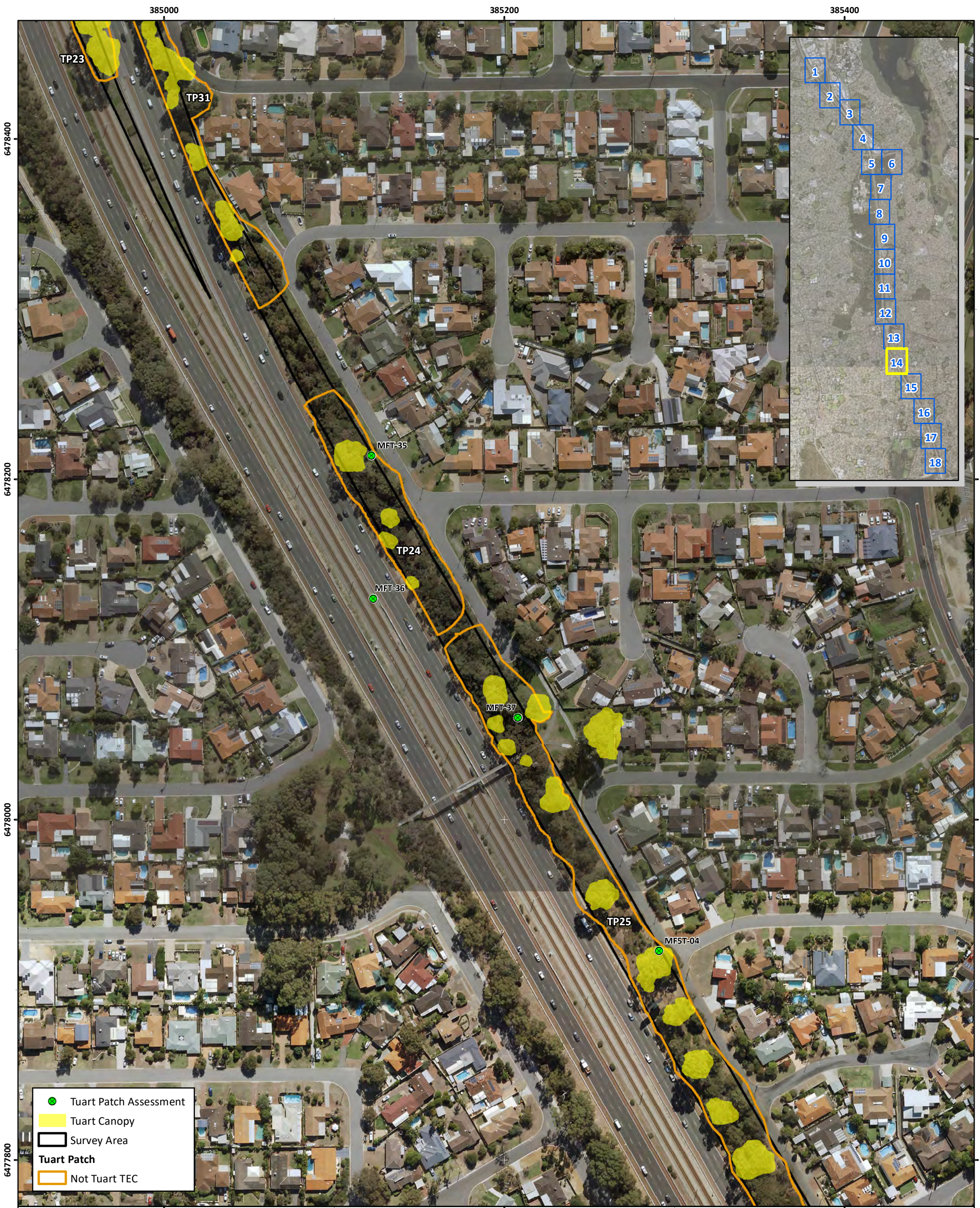
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Figure L.2.13: Tuart woodlands and forests of the Swan Coastal Plain



Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2	

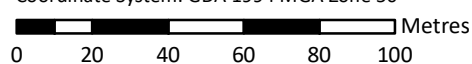




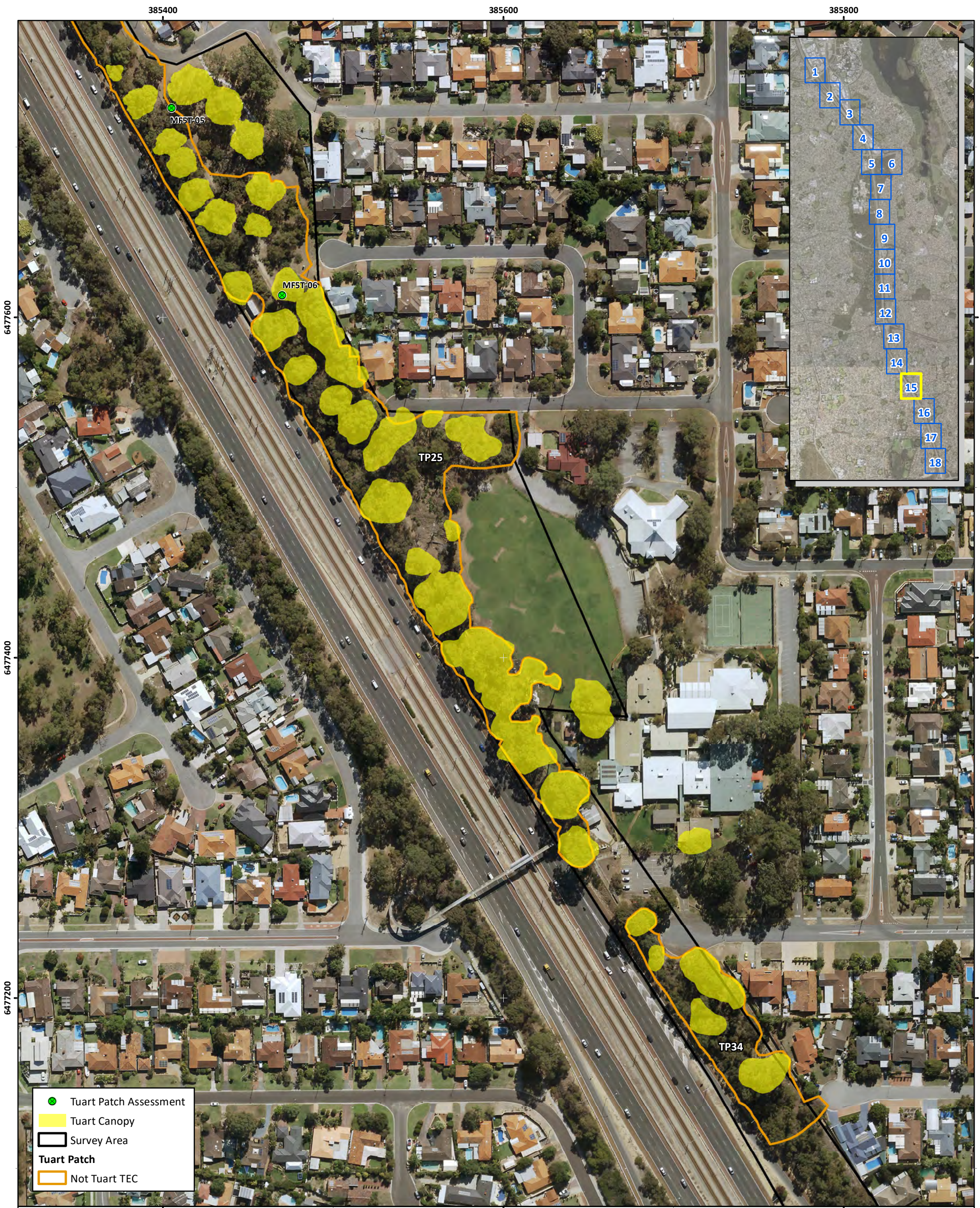
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Figure L.2.14: Tuart woodlands and forests of the Swan Coastal Plain

Author: C. Dyde	Date: 07-08-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200807_Tuart_FigL2	

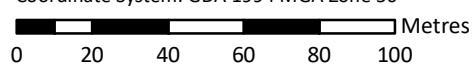




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Figure L.2.15: Tuart woodlands and forests of the Swan Coastal Plain

Author: C. Dyde	Date: 07-08-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200807_Tuart_FigL2	



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Figure L.2.16: Tuart woodlands and forests of the Swan Coastal Plain



Author: C. Dyde

Date: 21-05-2020

Drawn: A. Sleep

Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2

Scale: 1:2,000 at A3
 Coordinate System: GDA 1994 MGA Zone 50

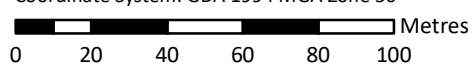




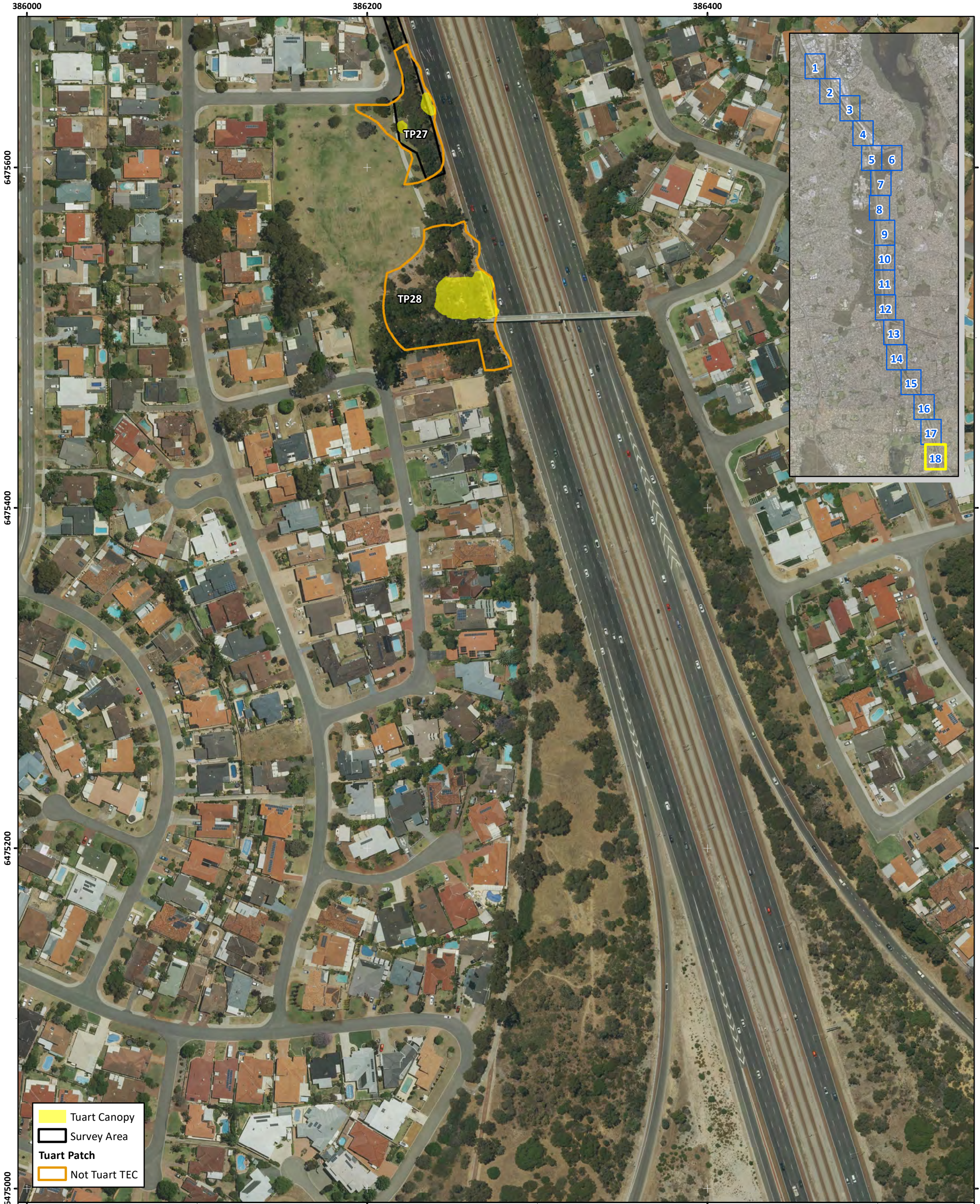
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Figure L.2.17: Tuart woodlands and forests of the Swan Coastal Plain

Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2	

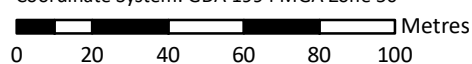




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Figure L.2.18: Tuart woodlands and forests of the Swan Coastal Plain

Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Tuart_FigL2	





Threatened and Priority Ecological Community (TEC/PEC) Occurrence Report Form

COMMUNITY: Tuart woodlands of the SCP TEC		OBSERVATION DATE: 03/10/2019	
New occurrence <input checked="" type="checkbox"/> Site ID: _____		CONS STATUS: CR	
OBSERVER/S: Bethea Loudon and Alexandra Sleep		PHONE: 94219600	
ROLE: Senior botanist / env. scientist		ORGANISATION: Astron	
EMAIL: alexandra.sleep@astron.com.au			

DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place):

Mitchell Freeway road reserve - shapefile provided

_____ **Reserve No:** _____

DISTRICT: _____ **LGA:** _____ **Land manager present:**

DATUM:	COORDINATES: (If UTM coords provided, Zone is also required)	METHOD USED:
GDA94 / MGA94 <input checked="" type="checkbox"/>	DecDegrees <input type="checkbox"/> DegMinSec <input type="checkbox"/> UTM <input type="checkbox"/>	GPS <input type="checkbox"/> Differential GPS <input type="checkbox"/> Map <input type="checkbox"/>
AGD84 / AMG84 <input type="checkbox"/>	Lat / Northing: _____	No. satellites: _____ Map used: _____
WGS84 <input type="checkbox"/>	Long / Easting: _____	Boundary polygon captured: <input checked="" type="checkbox"/> Map used: _____
Unknown <input type="checkbox"/>	Zone: _____	

LAND TENURE:

Nature reserve <input type="checkbox"/>	Timber reserve <input type="checkbox"/>	Private property <input type="checkbox"/>	Rail reserve <input type="checkbox"/>	Shire road reserve <input type="checkbox"/>
National park <input type="checkbox"/>	State forest <input type="checkbox"/>	Pastoral lease <input type="checkbox"/>	MRWA road reserve <input checked="" type="checkbox"/>	Other Crown reserve <input type="checkbox"/>
Conservation park <input type="checkbox"/>	Water reserve <input type="checkbox"/>	UCL <input type="checkbox"/>	SLK/Pole _____ to _____	Specify other: _____

AREA ASSESSMENT: Edge survey Partial survey Full survey Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

THREATS - type, and supporting information: <small>e.g. clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents.</small>	Cause/Agent: <small>e.g. weed type, grazing species, recreation type</small>	Area affected	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
• Fragmentation	edge effect (large edge to area ratio)	%	E		
• Road/rail/utility maintenance	clearing/slashing/herbicide	%	H		
• Human movement	dumped rubbish and garden refuse, pedestrian use	%	H		
• Weed invasion	Annual veldt grass, perennial veldt grass, African love grass	%	E		
•		%			
•		%			
•		%			
•		%			
•		%			

*Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme
*Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)

CONDITION OF OCCURRENCE: (Bush Forever Scale) (estimate % of area in each)

Pristine _____% Very Good _____% Degraded _____%

Please return form to:

communities.data@dpaw.wa.gov.au

or Species and Communities Branch, Department of Parks and Wildlife, Locked Bag 104, Bentley Delivery Centre WA 6983

Record entered by: _____ Date entered: _____ Database no: _____



Threatened and Priority Ecological Community (TEC/PEC) Occurrence Report Form

Excellent ____%
 Good ____%
 Completely Degraded ____%

RECOMMENDED MANAGEMENT ACTIONS: e.g. roadside markers, weed control, etc.

ACTIONS IMPLEMENTED (include date):

HABITAT INFORMATION: (Check more than one box for combinations or where necessary)

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest <input type="checkbox"/> Hill <input type="checkbox"/> Ridge <input type="checkbox"/> Outcrop <input type="checkbox"/> Slope <input checked="" type="checkbox"/> Flat <input checked="" type="checkbox"/> Open depression <input type="checkbox"/> Drainage line <input type="checkbox"/> Closed depression <input type="checkbox"/> Wetland <input type="checkbox"/>	Granite <input type="checkbox"/> Dolerite <input type="checkbox"/> Laterite <input type="checkbox"/> Ironstone <input type="checkbox"/> Limestone <input checked="" type="checkbox"/> Quartz <input type="checkbox"/> Specify other:	(on soil surface; e.g. gravel, quartz fields) 0-10% <input type="checkbox"/> 10-30% <input type="checkbox"/> 30-50% <input type="checkbox"/> 50-100% <input type="checkbox"/>	Sand <input checked="" type="checkbox"/> Sandy loam <input type="checkbox"/> Loam <input type="checkbox"/> Clay loam <input type="checkbox"/> Light clay <input type="checkbox"/> Peat <input type="checkbox"/> Specify other:	Red <input type="checkbox"/> Brown <input checked="" type="checkbox"/> Yellow <input type="checkbox"/> White <input type="checkbox"/> Grey <input type="checkbox"/> Black <input type="checkbox"/> Specify other:	Well drained <input type="checkbox"/> Seasonally inundated <input type="checkbox"/> Permanently inundated <input type="checkbox"/> Tidal <input type="checkbox"/> Specify other:

Specific Landform Element: (Refer to field manual for additional values)

CONDITION OF SOIL:
 Dry Moist Waterlogged Inundated Cracked Saline Other: _____

VEGETATION CLASSIFICATION:	1. See GIS data
	2. _____
	3. _____
	4. _____

FIRE HISTORY:

Last Fire: Season/Month: Year: Fire Intensity: High Medium Low No evidence of fire



Please return form to:



communities.data@dpaw.wa.gov.au




or Species and Communities Branch, Department of Parks and Wildlife, Locked Bag 104, Bentley Delivery Centre WA 6983



Record entered by: _____ Date entered: _____ Database no: _____



Table L.4: Banksia Woodland Patch Assessments.


Banksia Woodland Patch Assessments										
Site name (Patch no.)	Low tree canopy cover	Dominant low tree species	Tall overstorey canopy cover	Tall overstorey species	Flora inventory	TEC condition scale	Weed cover	Location (GDA 94, zone 50)		Photograph
								Easting (mE)	Northing (mN)	
MFB-01 (BP01)	20	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i>	0	None	See Quadrat MFQ-06	Good	15	383096	6485935	
MFB-02 (BP02)	40	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i> <i>Banksia menziesii</i>	20	<i>Eucalyptus marginata</i>	See Quadrat MFQ-07	Good	30	383197	6485859	

Banksia Woodland Patch Assessments										
Site name (Patch no.)	Low tree canopy cover	Dominant low tree species	Tall overstorey canopy cover	Tall overstorey species	Flora inventory	TEC condition scale	Weed cover	Location (GDA 94, zone 50)		Photograph
								Easting (mE)	Northing (mN)	
MFB-BL1 (BP03)	5	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i>	0	Absent	<i>Hibbertia hypericoides</i> <i>Burchardia congesta</i> <i>Hardenbergia comptoniana</i> <i>Gompholobium tomentosum</i> * <i>Gladiolus caryophyllaceus</i> * <i>Sonchus oleraceus</i> <i>Austrostipa flavescens</i> * <i>Lysimachia arvensis</i> * <i>Briza minor</i> * <i>Fumaria capreolata</i> <i>Desmodium flexuosum</i> * <i>Hypochaeris glabra</i> <i>Mesomelaena pseudostygia</i> <i>Ursinia anthemoides</i> <i>Thysanotus manglesianus</i> <i>Galium murale</i> <i>Lupinus cosentinii</i> <i>Scaevola canescens</i> <i>Xanthorrhoea preissii</i> * <i>Heliophila pusilla</i> <i>Melaleuca seriata</i>	Good	10	383395	6485602	
MFB-05 (BP02)	2	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i>	<1	<i>Eucalyptus gomphocephala</i>	<i>Hibbertia hypericoides</i> <i>Mesomelaena pseudostygia</i> <i>Gompholobium tomentosum</i> * <i>Ehrharta calycina</i>	Good	10	383112	6486020	

Banksia Woodland Patch Assessments										
Site name (Patch no.)	Low tree canopy cover	Dominant low tree species	Tall overstorey canopy cover	Tall overstorey species	Flora inventory	TEC condition scale	Weed cover	Location (GDA 94, zone 50)		Photograph
								Easting (mE)	Northing (mN)	
MFB-06 (BP04)	20	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i>	10	<i>Eucalyptus gomphocephala</i> <i>Eucalyptus marginata</i>	<i>Xanthorrhoea preissii</i> <i>Gompholobium tomentosum</i> <i>Hibbertia hypericoides</i> <i>Stirlingia latifolia</i> <i>Mesomelaena pseudostygia</i> <i>Alexgeorgea nitens</i>	Good	10	384040	6484786	
MFB-07 (BP04)	1	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i>	40	<i>Eucalyptus marginata</i>	<i>Xanthorrhoea preissii</i> <i>Ehrharta calycina</i>	Degraded	20	383966	6484886	
MFB-08 ¹	2	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i>	40	<i>Eucalyptus gomphocephala</i> <i>Eucalyptus marginata</i>	Not recorded	Very Good	20	384718	6483519	

Banksia Woodland Patch Assessments										
Site name (Patch no.)	Low tree canopy cover	Dominant low tree species	Tall overstorey canopy cover	Tall overstorey species	Flora inventory	TEC condition scale	Weed cover	Location (GDA 94, zone 50)		Photograph
								Easting (mE)	Northing (mN)	
MFB-09 ¹	3	<i>Banksia attenuata</i>	40	<i>Allocasuarina fraseriana</i> <i>Eucalyptus marginata</i>	<i>Xanthorrhoea preissii</i> <i>Hibbertia hypericoides</i> <i>Gompholobium tomentosum</i> * <i>Ehrharta calycina</i> <i>Mesomelaena pseudostygia</i>	Very Good	30	384735	6482763	
MFB-10 ¹	30	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i> (10%)	20	<i>Eucalyptus gomphocephala</i> <i>Eucalyptus marginata</i>	<i>Xanthorrhoea preissii</i> (understorey mostly cleared)	Degraded	2	384993	6483425	

Banksia Woodland Patch Assessments										
Site name (Patch no.)	Low tree canopy cover	Dominant low tree species	Tall overstorey canopy cover	Tall overstorey species	Flora inventory	TEC condition scale	Weed cover	Location (GDA 94, zone 50)		Photograph
								Easting (mE)	Northing (mN)	
MFB-11 (BP06)	13	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i> (8%)	4	<i>Eucalyptus marginata</i>	* <i>Ehrharta calycina</i> * <i>Briza maxima</i> * <i>Ursinia anthemoides</i>	Very Good	3	384693	6482925	
MFB-12 (BP05)	7	<i>Banksia attenuata</i> <i>Banksia menziesii</i> <i>Allocasuarina fraseriana</i> (1%)	6	<i>Eucalyptus marginata</i>	* <i>Ehrharta calycina</i> * <i>Briza maxima</i> * <i>Ursinia anthemoides</i> <i>Xanthorrhoea preissii</i> <i>Hakea lissocarpa</i> <i>Acacia lasiocarpa</i> <i>Mesomelaena pseudostygia</i>	Very Good	5	384665	6483217	

Banksia Woodland Patch Assessments										
Site name (Patch no.)	Low tree canopy cover	Dominant low tree species	Tall overstorey canopy cover	Tall overstorey species	Flora inventory	TEC condition scale	Weed cover	Location (GDA 94, zone 50)		Photograph
								Easting (mE)	Northing (mN)	
MFB-13 (BP05)	18	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i> (6%)	7	<i>Eucalyptus marginata</i>	<i>*Ehrharta calycina</i> <i>*Ursinia anthemoides</i> <i>*Sonchus oleraceus</i> <i>*Carpobrotus edulis</i> <i>Xanthorrhoea preissii</i> <i>Hibbertia hypericoides</i> <i>Desmodcladus flexuosus</i> <i>Mesomelaena pseudostygia</i> <i>Hakea lissocarpha</i> <i>Scaevola canescens</i>	Very Good	2	384600	6483644	
MFB-14 (BP05)	20	<i>Allocasuarina fraseriana</i> <i>Banksia attenuata</i> <i>Banksia menziesii</i>	2	<i>Eucalyptus gomphocephala</i>	<i>*Ehrharta calycina</i> <i>*Ursinia anthemoides</i> <i>*Pentameris airoides</i> <i>*Gladiolus caryophyllaceus</i> <i>Xanthorrhoea preissii</i> <i>Hibbertia hypericoides</i> <i>Gompholobium tomentosum</i> <i>Mesomelaena pseudostygia</i> <i>Lomandra hermaphrodita</i> <i>Scaevola canescens</i>	Good (<2 ha)	5	384600	6483644	

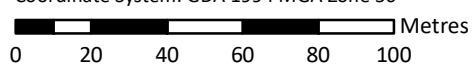
1 – Site occurs outside of survey area and not within a mapped patch.



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Figure L.3.1: Banksia Woodlands of the Swan Coastal Plain TEC

Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Banksia_FigL3	



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- Banksia Patch Assessment
- Quadrat
- ▲ Relevé
- Survey Area
- Banksia Patch**
- Not Banksia TEC

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Figure L.3.2: Banksia Woodlands of the Swan Coastal Plain TEC

Author: C. Dyde	Date: 21-05-2020
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Banksia_FigL3

Scale: 1:2,000 at A3
 Coordinate System: GDA 1994 MGA Zone 50

Metres

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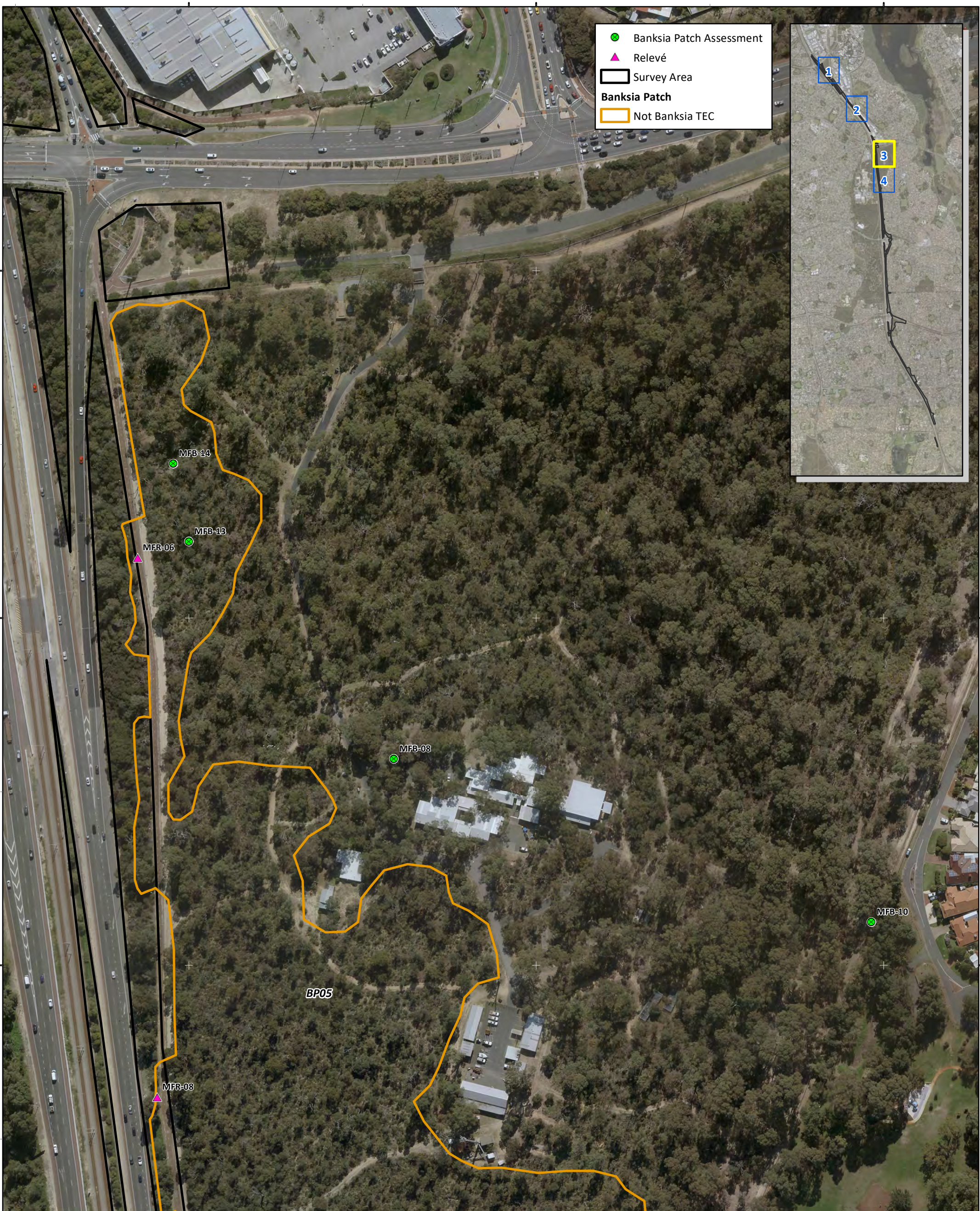
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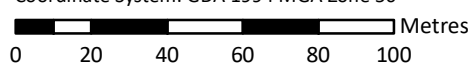
6483400



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Figure L.3.3: Banksia Woodlands of the Swan Coastal Plain TEC

Author: C. Dyde	Date: 21-05-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Banksia_FigL3	





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Figure L.3.4: Banksia Woodlands of the Swan Coastal Plain TEC



Author: C. Dyde	Date: 21-05-2020
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200520_Banksia_FigL3

Scale: 1:2,000 at A3
 Coordinate System: GDA 1994 MGA Zone 50

0 20 40 60 80 100 Metres



Threatened and Priority Ecological Community (TEC/PEC) Occurrence Report Form

COMMUNITY: <u>Banksia woodlands of the SCP TEC</u>		OBSERVATION DATE: <u>03/10/2019</u>	
New occurrence <input checked="" type="checkbox"/> Site ID: _____		CONS STATUS: <u>P3</u>	
OBSERVER/S: <u>Bethea Loudon and Alexandra Sleep</u>		PHONE: <u>94219600</u>	
ROLE: <u>Senior botanist / env. scientist</u>		ORGANISATION: <u>Astron</u>	
EMAIL: <u>alexandra.sleep@astron.com.au</u>			

DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place):

Mitchell Freeway road reserve - shapefile provided

_____ **Reserve No:** _____

DISTRICT: _____ **LGA:** _____ **Land manager present:**

DATUM:	COORDINATES: (If UTM coords provided, Zone is also required)	METHOD USED:
GDA94 / MGA94 <input checked="" type="checkbox"/>	DecDegrees <input type="checkbox"/> DegMinSec <input type="checkbox"/> UTM <input type="checkbox"/>	GPS <input type="checkbox"/> Differential GPS <input type="checkbox"/> Map <input type="checkbox"/>
AGD84 / AMG84 <input type="checkbox"/>	Lat / Northing: _____	No. satellites: _____ Map used: _____
WGS84 <input type="checkbox"/>	Long / Easting: _____	Boundary polygon captured: <input checked="" type="checkbox"/> Map used: _____
Unknown <input type="checkbox"/>	Zone: _____	

LAND TENURE:

Nature reserve <input type="checkbox"/>	Timber reserve <input type="checkbox"/>	Private property <input type="checkbox"/>	Rail reserve <input type="checkbox"/>	Shire road reserve <input type="checkbox"/>
National park <input type="checkbox"/>	State forest <input type="checkbox"/>	Pastoral lease <input type="checkbox"/>	MRWA road reserve <input checked="" type="checkbox"/>	Other Crown reserve <input type="checkbox"/>
Conservation park <input type="checkbox"/>	Water reserve <input type="checkbox"/>	UCL <input type="checkbox"/>	SLK/Pole _____ to _____	Specify other: _____

AREA ASSESSMENT: Edge survey Partial survey Full survey Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

THREATS - type, and supporting information: <small>e.g. clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents.</small>	Cause/Agent: <small>e.g. weed type, grazing species, recreation type</small>	Area affected	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
• Fragmentation	edge effect (large edge to area ratio)	%	E		
• Road/rail/utility maintenance	clearing/slashing/herbicide	%	H		
• Human movement	dumped rubbish and garden refuse, pedestrian use	%	H		
• Weed invasion	Annual veldt grass, perennial veldt grass, African love grass	%	E		
•		%			
•		%			
•		%			
•		%			
•		%			

*Rate current and potential threat impact: **N=Nil, L=Low, M=Medium, H=High, E=Extreme**
 *Estimate time to potential impact: **S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)**

CONDITION OF OCCURRENCE: (Bush Forever Scale) (estimate % of area in each)

Pristine _____% Very Good _____% Degraded _____%

Please return form to:

communities.data@dpaw.wa.gov.au

or Species and Communities Branch, Department of Parks and Wildlife, Locked Bag 104, Bentley Delivery Centre WA 6983

Record entered by: _____ Date entered: _____ Database no: _____



Threatened and Priority Ecological Community (TEC/PEC) Occurrence Report Form

Excellent ____%
 Good ____%
 Completely Degraded ____%

RECOMMENDED MANAGEMENT ACTIONS: e.g. roadside markers, weed control, etc.

ACTIONS IMPLEMENTED (include date):

HABITAT INFORMATION: (Check more than one box for combinations or where necessary)

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest <input type="checkbox"/> Hill <input type="checkbox"/> Ridge <input type="checkbox"/> Outcrop <input type="checkbox"/> Slope <input checked="" type="checkbox"/> Flat <input checked="" type="checkbox"/> Open depression <input type="checkbox"/> Drainage line <input type="checkbox"/> Closed depression <input type="checkbox"/> Wetland <input type="checkbox"/>	Granite <input type="checkbox"/> Dolerite <input type="checkbox"/> Laterite <input type="checkbox"/> Ironstone <input type="checkbox"/> Limestone <input checked="" type="checkbox"/> Quartz <input type="checkbox"/> Specify other:	<small>(on soil surface; e.g. gravel, quartz fields)</small> 0-10% <input type="checkbox"/> 10-30% <input type="checkbox"/> 30-50% <input type="checkbox"/> 50-100% <input type="checkbox"/>	Sand <input checked="" type="checkbox"/> Sandy loam <input type="checkbox"/> Loam <input type="checkbox"/> Clay loam <input type="checkbox"/> Light clay <input type="checkbox"/> Peat <input type="checkbox"/> Specify other:	Red <input type="checkbox"/> Brown <input checked="" type="checkbox"/> Yellow <input type="checkbox"/> White <input type="checkbox"/> Grey <input type="checkbox"/> Black <input type="checkbox"/> Specify other:	Well drained <input type="checkbox"/> Seasonally inundated <input type="checkbox"/> Permanently inundated <input type="checkbox"/> Tidal <input type="checkbox"/> Specify other:

Specific Landform Element: (Refer to field manual for additional values)

CONDITION OF SOIL:
 Dry Moist Waterlogged Inundated Cracked Saline Other: _____

VEGETATION CLASSIFICATION:	1. See GIS data
	2. _____
	3. _____
	4. _____

FIRE HISTORY:

Last Fire: Season/Month: Year: Fire Intensity: High Medium Low No evidence of fire

Please return form to:

communities.data@dpaw.wa.gov.au

or Species and Communities Branch, Department of Parks and Wildlife, Locked Bag 104, Bentley Delivery Centre WA 6983

Record entered by: _____ Date entered: _____ Database no: _____

References

Department of the Environment and Energy. 2016. Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands for the Swan Coastal Plain ecological community. Commonwealth of Australia, Canberra, ACT.

Department of the Environment and Energy. 2019. Approved Conservation Advice (incorporating listing advice) for the Tuart (*Eucalyptus gomphocephala*) woodlands and forests of the Swan Coastal Plain ecological community. Department of the Environment and Energy, Canberra, ACT.

Department of the Environment and Energy. 2020. Interim Biogeographic Regionalisation for Australia (IBRA), Version 7. <http://www.environment.gov.au/land/nrs/science/ibra>.

Environmental Protection Authority. 2016. Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment. Government of Western Australia, Perth WA.

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Appendix M: Vascular Flora Species List and Site by Species Matrix

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Table M.1: Flora species list.

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Aizoaceae	<i>*Aizoon pubescens</i>		*	Unknown
	<i>*Carpobrotus edulis</i>		*	High
Alliaceae	<i>*Allium triquetrum</i>		*	High
Apiaceae	<i>Daucus glochidiatus</i>			
	<i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
	<i>Xanthosia huegelii</i>			
Araliaceae	<i>Trachymene pilosa</i>			
Arecaceae	<i>*Phoenix dactylifera</i>		*	Not Rated
Asparagaceae	<i>*Agave americana</i>		*	Moderate
	<i>*Asparagus asparagoides</i>		*	High
	<i>Acanthocarpus preissii</i>			
	<i>Lomandra caespitosa</i>			
	<i>Lomandra hermaphrodita</i>			
	<i>Lomandra nigricans</i>			
	<i>Lomandra preissii</i>			
	<i>Lomandra suaveolens</i>			
	<i>Sowerbaea laxiflora</i>			
<i>Thysanotus manglesianus</i>				
Asphodelaceae	<i>*Aloe vera</i>		*	Not Rated
Asteraceae	<i>*Arctotheca calendula</i>		*	High
	<i>*Gazania linearis</i>		*	High
	<i>*Conyza bonariensis</i>		*	Low
	<i>*Hypochaeris glabra</i>		*	High
	<i>*Hypochaeris radicata</i>		*	High
	<i>*Lactuca serriola</i>		*	High
	<i>*Monoculus monstrosus</i>		*	Moderate
	<i>*Osteospermum ecklonis</i>		*	Unknown
	<i>*Senecio vulgaris</i>		*	Low
	<i>*Sonchus oleraceus</i>		*	Unknown
	<i>*Urospermum picroides</i>		*	Moderate
	<i>*Ursinia anthemoides</i>		*	Unknown
	<i>Lagenophora huegelii</i>			
	<i>Olearia axillaris</i>		3	
<i>Podolepis gracilis</i>				
<i>Podotheca gnaphalioides</i>				
Brassicaceae	<i>*Heliophila pusilla</i>		*	Unknown
Caryophyllaceae	<i>*Petrorhagia dubia</i>		*	Moderate

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Caryophyllaceae	<i>*Silene gallica</i>		*	Low
Casuarinaceae	<i>*Casuarina equisetifolia</i>		*	Unknown
	<i>Allocasuarina campestris</i>		1	
	<i>Allocasuarina fraseriana</i>			
	<i>Allocasuarina humilis</i>			
	<i>Allocasuarina lehmanniana</i>		3	
Chenopodiaceae	<i>Rhagodia baccata</i> subsp. <i>baccata</i>			
Colchicaceae	<i>Burchardia congesta</i>			
Convolvulaceae	<i>*Ipomoea cairica</i>		*	High
Cupressaceae	<i>Callitris preissii</i>		3 / 4	Unknown
Cyperaceae	<i>Lepidosperma calcicola</i>			
	<i>Lepidosperma leptostachyum</i>			
	<i>Lepidosperma</i> sp.			
	<i>Mesomelaena pseudostygia</i>			
	<i>Schoenus clandestinus</i>			
	<i>Schoenus grandiflorus</i>			
Dilleniaceae	<i>Hibbertia cuneiformis</i>		3 / 4	Unknown
	<i>Hibbertia hypericoides</i>			
Droseraceae	<i>Drosera ?menziesii</i>			
	<i>Drosera erythrorhiza</i>			
	<i>Drosera macrantha</i>			
Ericaceae	<i>Conostephium pendulum</i>			
	<i>Leucopogon propinquus</i>			
Euphorbiaceae	<i>*Euphorbia peplus</i>		*	Unknown
	<i>*Euphorbia terracina</i>		*	High
	<i>*Ricinus communis</i>		*	Moderate
	<i>Ricinoscarpos tuberculatus</i> P2	2	1	
Fabaceae	<i>*Acacia iteaphylla</i>		*	High
	<i>*Acacia longifolia</i>		*	High
	<i>*Acacia podalyriifolia</i>		*	High
	<i>*Genista linifolia</i>		*	High
	<i>*Lupinus angustifolius</i>		*	High
	<i>*Lupinus cosentinii</i>		*	High
	<i>*Medicago polymorpha</i>		*	Unknown
	<i>*Melilotus indicus</i>		*	Unknown
	<i>*Trifolium campestre</i>		*	Unknown
	<i>*Trifolium hirtum</i>		*	Unknown
	<i>*Vicia sativa</i>		*	Unknown

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Fabaceae	<i>Acacia alata</i>			
	<i>Acacia cochlearis</i>		3	
	<i>Acacia cyclops</i>		3	
	<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>		3 / 4	
	<i>Acacia littorea</i>		3	
	<i>Acacia pulchella</i>		3 / 4	
	<i>Acacia rostellifera</i>		3	
	<i>Acacia saligna</i>		3	
	<i>Acacia xanthina</i>		3	
	<i>Bossiaea eriocarpa</i>			
	<i>Daviesia divaricata</i>			
	<i>Daviesia nudiflora</i>			
	<i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
	<i>Daviesia triflora</i>			
	<i>Gompholobium tomentosum</i>			
	<i>Hardenbergia comptoniana</i>		3	
	<i>Hovea trisperma</i>			
	<i>Isotropis cuneifolia</i>			
	<i>Jacksonia calcicola</i>			
	<i>Jacksonia furcellata</i>			
<i>Jacksonia sericea</i> P4	4			
<i>Jacksonia sternbergiana</i>				
<i>Templetonia retusa</i>		3		
Geraniaceae	* <i>Erodium botrys</i>		*	Unknown
	* <i>Pelargonium capitatum</i>		*	High
Goodeniaceae	<i>Lechenaultia linarioides</i>			
	<i>Scaevola canescens</i>			
	<i>Scaevola crassifolia</i>		3	
	<i>Scaevola repens</i>			
Haemodoraceae	<i>Anigozanthos manglesii</i>			
	<i>Conostylis aculeata</i>			
	<i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
	<i>Conostylis aculeata</i> subsp. <i>cygnorum</i>			
	<i>Conostylis setigera</i> subsp. <i>setigera</i>			
Hemerocallidaceae	<i>Caesia micrantha</i>			
	<i>Corynotheca micrantha</i>			
	<i>Dianella revoluta</i>			
	<i>Tricoryne elatior</i>			

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Iridaceae	<i>*Ferraria crispa</i>		*	High
	<i>*Freesia alba x leichtlinii</i>		*	High
	<i>*Gladiolus caryophyllaceus</i>		*	High
	<i>*Moraea flaccida</i>		*	High
	<i>*Romulea rosea</i>		*	Unknown
	<i>*Sparaxis bulbifera</i>		*	High
	<i>*Watsonia meriana</i>		*	High
	<i>*Iridaceae sp.</i>		*	
Lamiaceae	<i>Hemiandra glabra</i>			
Malvaceae	<i>Guichenotia ledifolia</i>		3	
Meliaceae	<i>Melia azedarach</i>		1 / 4	Low
Myrtaceae	<i>*Leptospermum laevigatum</i>		*	High
	<i>*Melaleuca armillaris</i>		*	Unknown
	<i>Agonis flexuosa</i>		3 / 4	High
	<i>Angophora costata</i>		2	
	<i>Beaufortia aestiva</i>		3	
	<i>Callistemon viminalis</i> 'Kings Park Special'		2	Unknown
	<i>Calothamnus quadrifidus</i>		1 / 4	High
	<i>Chamelaucium uncinatum</i>		1 / 4	Moderate
	<i>Corymbia calophylla</i>		3	
	<i>Eremaea pauciflora</i>		3	
	<i>Eremaea purpurea</i>			
	<i>Eucalyptus adesmophloia</i>		1	
	<i>Eucalyptus albopurpurea</i>		2	
	<i>Eucalyptus caesia</i>		1	
	<i>Eucalyptus camaldulensis</i>		1 / 4	Moderate
	<i>Eucalyptus conferruminata</i>		1 / 4	Low
	<i>Eucalyptus conglobata</i>		1	
	<i>Eucalyptus diversifolia</i>		1	
	<i>Eucalyptus erythrocorys</i>		1 / 4	Low
	<i>Eucalyptus gomphocephala</i>		3	
	<i>Eucalyptus horistes</i>		1	
	<i>Eucalyptus leucoxylon</i>		2	
	<i>Eucalyptus marginata</i>		3	
	<i>Eucalyptus petrensis</i>		3	
<i>Eucalyptus platypus</i>		1		
<i>Eucalyptus rudis</i>		3		
<i>Eucalyptus sideroxylon</i>		2		

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Myrtaceae	<i>Eucalyptus</i> sp.			
	<i>Eucalyptus todtiana</i>		3	
	<i>Hypocalymma angustifolium</i>			
	<i>Hypocalymma robustum</i>			
	<i>Kunzea glabrescens</i>			
	<i>Melaleuca cardiophylla</i>		3	
	<i>Melaleuca elliptica</i>		1	
	<i>Melaleuca huegelii</i>		3	
	<i>Melaleuca lanceolata</i>		3 / 4	
	<i>Melaleuca nesophila</i>		1 / 4	Unknown
	<i>Melaleuca</i> sp.			
	<i>Melaleuca systema</i>		3	
	<i>Melaleuca viminea</i>		3	
Oleaceae	<i>*Olea europaea</i>		*	High
Orchidaceae	<i>Caladenia arenicola</i>			
	<i>Caladenia flava</i>			
	<i>Caladenia latifolia</i>			
	<i>Diuris longifolia</i>			
	<i>Microtis media</i>			
	<i>Pterostylis recurva</i>			
	<i>Thelymitra</i> sp.			
Orobanchaceae	<i>*Orobanche minor</i>		*	Unknown
Oxalidaceae	<i>*Oxalis pes-caprae</i>		*	High
Papaveraceae	<i>*Fumaria capreolata</i>		*	High
Phyllanthaceae	<i>Phyllanthus calycinus</i>			
	<i>Poranthera microphylla</i>			
Pittosporaceae	<i>Billardiera heterophylla</i>			
Poaceae	<i>*Avena fatua</i>		*	High
	<i>*Briza maxima</i>		*	Unknown
	<i>*Briza minor</i>		*	Unknown
	<i>*Bromus diandrus</i>		*	High
	<i>*Cenchrus clandestinus</i>		*	High
	<i>*Cynodon dactylon</i>		*	High
	<i>*Ehrharta calycina</i>		*	High
	<i>*Ehrharta longiflora</i>		*	Moderate
	<i>*Eragrostis curvula</i>		*	High
	<i>*Hordeum leporinum</i>		*	High
	<i>*Lagurus ovatus</i>		*	High

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Poaceae	<i>*Rostraria cristata</i>		*	Unknown
	<i>*Vulpia myuros</i>		*	High
	<i>Austrostipa flavescens</i>			
Polygalaceae	<i>*Polygala myrtifolia</i>		*	High
Primulaceae	<i>*Lysimachia arvensis</i>		*	Unknown
Proteaceae	<i>Adenanthos cygnorum</i>		3	
	<i>Banksia attenuata</i>			
	<i>Banksia grandis</i>			
	<i>Banksia menziesii</i>			
	<i>Banksia nivea</i>			
	<i>Banksia prionotes</i>		3	
	<i>Banksia sceptrum</i>		1	
	<i>Banksia sessilis</i>		3	
	<i>Banksia sp.</i>			
	<i>Grevillea crithmifolia</i>		3	
	<i>Grevillea olivacea</i> P4	4	1	
	<i>Grevillea preissii</i>		3	
	<i>Grevillea robusta</i>		2	
	<i>Grevillea vestita</i>		3	
	<i>Hakea lissocarpha</i>		3	
	<i>Hakea prostrata</i>		3	
	<i>Hakea trifurcata</i>		3	
	<i>Petrophile axillaris</i>			
	<i>Petrophile brevifolia</i> subsp. <i>brevifolia</i>			
	<i>Petrophile linearis</i>			
<i>Petrophile macrostachya</i>				
<i>Stirlingia latifolia</i>				
<i>Synaphea spinulosa</i>				
Ranunculaceae	<i>Clematis linearifolia</i>			
	<i>Clematis pubescens</i>			
Restionaceae	<i>Alexgeorgea nitens</i>			
	<i>Desmocladus flexuosus</i>			
Rhamnaceae	<i>Spyridium globulosum</i>		3	
Rosaceae	<i>*Cotoneaster pannosus</i>		*	Low
Rubiaceae	<i>Opercularia vaginata</i>			
Thymelaeaceae	<i>Pimelea sulphurea</i>			
Tropaeolaceae	<i>*Tropaeolum majus</i>		*	Low
Verbenaceae	<i>*Lantana camara</i>		*	High

Family name	Species name	Conservation status	Weed planted status^ /	Ecological impact rating #
Xanthorrhoeaceae	<i>Xanthorrhoea preissii</i>			
Zamiaceae	<i>Macrozamia fraseri</i>			
	<i>Macrozamia riedlei</i>			

* Denotes introduced (weed) species

^ Planted status of vegetation:

- o 1 – denotes Western Australian native species occurring outside of known range and or habitat which are planted within the survey area.
- o 2 – denotes species not native to Western Australia, or commercially available plant cultivars which are planted within the survey area that are not considered to be weeds.
- o 3 – denotes locally native species which may occur naturally in the area, and is also known to be planted within the survey area.
- o 4 – denotes native species which is native in part of its range and naturalised elsewhere

Ecological impact rating based on the prioritisation process for weed management (Department of Parks and Wildlife 2013)

Table M.2: Flora site by species matrix.

Species	MF5Q-01	MF5Q-02	MF5Q-03	MF5R-01	MF5R-02	MF5R-03	MF5R-04	MF5R-05	MF5R-06	MF5R-07	MF5R-08	MF5R-09	MF5R-10	MF5R-11	MF5R-12	MF5R-13	MF5R-14	MF5R-15	MF5R-16	MFQ-02	MFQ-03	MFQ-04	MFQ-05	MFQ-06
*Acacia iteaphylla	0	0	0	0	0	0	0	0	0	20	0	0	0	0	1	0	0	25	0	0	2	0	0.1	0
*Acacia longifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Acacia podalyriifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Agave americana	0	0.1	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Aizoon pubescens	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Allium triquetrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Aloe vera	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Arctotheca calendula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Avena fatua	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
*Briza maxima	0.5	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	0.1	0.5
*Briza minor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
*Bromus diandrus	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0.1	1	1	0	0.1
*Carpobrotus edulis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0
*Casuarina equisetifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Cenchrus clandestinus	0	0	0	0	50	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0
*Conyza bonariensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0
*Cotoneaster pannosus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0
*Cynodon dactylon	0	0	0	0	40	0	0	0	1	0	0	40	0	0	0	0	0	0	0	0	1	0	0	0
*Ehrharta calycina	30	40	20	0	0	20	0	40	3	20	0	0	20	30	30	30	70	20	0	10	2	3	8	2
*Ehrharta longiflora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	10	80	0.1	0
*Eragrostis curvula	0	0	0	80	0	0	30	40	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Erodium botrys	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
*Euphorbia peplus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Euphorbia terracina	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0	0.1
*Ferraria crispa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Freesia alba x leichtlinii	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Fumaria capreolata	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
*Gazania linearis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
*Genista linifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Gladiolus caryophyllaceus	0.1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1
*Heliophila pusilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
*Hordeum leporinum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Hypochaeris glabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0.1
*Hypochaeris radicata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Ipomoea cairica	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
*Lactuca serriola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Lagurus ovatus	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0	0	0
*Leptospermum laevigatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Lupinus angustifolius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*Lupinus cosentinii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1

Species	MF5Q-01	MF5Q-02	MF5Q-03	MF5R-01	MF5R-02	MF5R-03	MF5R-04	MF5R-05	MF5R-06	MF5R-07	MF5R-08	MF5R-09	MF5R-10	MF5R-11	MF5R-12	MF5R-13	MF5R-14	MF5R-15	MF5R-16	MFQ-02	MFQ-03	MFQ-04	MFQ-05	MFQ-06	
* <i>Lysimachia arvensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0.1
* <i>Medicago polymorpha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Melaleuca armillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Melilotus indicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Monoculus monstrosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Moraea flaccida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0.1
* <i>Olea europaea</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Orobanche minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Osteospermum ecklonis</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
* <i>Oxalis pes-caprae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0.1	0	0	1	0
* <i>Pelargonium capitatum</i>	0	0.1	0	0	0	0.1	0	0.1	0.1	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0	0.1
* <i>Petrorhagia dubia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
* <i>Phoenix dactylifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
* <i>Polygala myrtifolia</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Ricinus communis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Romulea rosea</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.2	0	0	0.1	0.1
* <i>Rostraria cristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Senecio vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Silene gallica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Sonchus oleraceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1	0	0.1	0
* <i>Sparaxis bulbifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Trifolium campestre</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.1	0
* <i>Trifolium hirtum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Tropaeolum majus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Urospermum picroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Ursinia anthemoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0.1
* <i>Vicia sativa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Vulpia myuros</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Watsonia meriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Acacia cochlearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia cyclops</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia littorea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia pulchella</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	1	0.2
<i>Acacia rostellifera</i>	0	0	0	0.1	0	0	20	0	0	0	0	0	0	2	0	0	0	2	0	0	8	2	0	0	0
<i>Acacia saligna</i>	0	0	0	0	0	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0	0	0	0
<i>Acacia xanthina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthocarpus preissii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenanthos cygnorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agonis flexuosa</i>	0	0	0	0	2	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	MF5Q-01	MF5Q-02	MF5Q-03	MF5R-01	MF5R-02	MF5R-03	MF5R-04	MF5R-05	MF5R-06	MF5R-07	MF5R-08	MF5R-09	MF5R-10	MF5R-11	MF5R-12	MF5R-13	MF5R-14	MF5R-15	MF5R-16	MFQ-02	MFQ-03	MFQ-04	MFQ-05	MFQ-06
<i>Alexgeorgea nitens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Allocasuarina campestris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Allocasuarina fraseriana</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	20	0	0	5
<i>Allocasuarina humilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
<i>Allocasuarina lehmanniana</i>	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angophora costata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anigozanthos manglesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Austrostipa flavescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
<i>Banksia attenuata</i>	10	0	10	0	0	0	0	0	2	0	0	0	0	10	0	0	0	0	0	0	0	0	3	3
<i>Banksia grandis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia menziesii</i>	0	0	20	0	0	0	0	0	0	0	1	0	0	0.1	0	0	0	0	0	0.1	0	0	0	0
<i>Banksia nivea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia prionotes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia sceptrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia sessilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	6
<i>Banksia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Beaufortia aestivalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Billardiera heterophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0
<i>Bossiaea eriocarpa</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Burchardia congesta</i>	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0
<i>Caesia micrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
<i>Caladenia arenicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caladenia flava</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
<i>Caladenia latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
<i>Callistemon viminalis</i> 'Kings Park Special'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Callitris preissii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0
<i>Calothamnus quadrifidus</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
<i>Chamelaucium uncinatum</i>	0	0	0	0	0	0	1	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clematis linearifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clematis pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostephium pendulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0
<i>Conostylis aculeata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostylis aculeata</i> subsp. <i>aculeata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Conostylis aculeata</i> subsp. <i>cygnorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostylis setigera</i> subsp. <i>setigera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corymbia calophylla</i>	0	0.1	2	0	10	0	0	0.1	20	5	40	0	0	0	20	0	10	30	0	0	0	0	2	0
<i>Corynotheca micrantha</i>	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	0	0.1
<i>Daucus glochidiatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0
<i>Daviesia divaricata</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
<i>Daviesia nudiflora</i>	0.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	0

Species	MF5Q-01	MF5Q-02	MF5Q-03	MF5R-01	MF5R-02	MF5R-03	MF5R-04	MF5R-05	MF5R-06	MF5R-07	MF5R-08	MF5R-09	MF5R-10	MF5R-11	MF5R-12	MF5R-13	MF5R-14	MF5R-15	MF5R-16	MFQ-02	MFQ-03	MFQ-04	MFQ-05	MFQ-06	
<i>Daviesia triflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Desmodium flexuosus</i>	1	4	0.5	0	0	0	0.1	0	0.1	0	0	0	0	0	0	0	0.1	0	0	0.1	0	2	7	0.2	
<i>Dianella revoluta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1
<i>Diuris longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drosera ?menziesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drosera erythrorhiza</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Drosera macrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eremaea pauciflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eremaea purpurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus adesmophloia</i>	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus caesia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus camaldulensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus conferruminata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus erythrocorys</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus gomphocephala</i>	2	40	10	30	5	30	0	0	15	1	0	35	15	20	0	30	45	15	0	0	20	10	8	0	
<i>Eucalyptus horistes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus leucoxylon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus marginata</i>	30	30	0	0	30	0	30	40	0	0	0	10	40	30	0	25	20	0	0	20	15	12	25	0	
<i>Eucalyptus petrensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus platypus</i>	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	30	0	0	0.1	0	0	0	0	0	0	0
<i>Eucalyptus rudis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus sideroxylon</i>	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus todtiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gompholobium tomentosum</i>	0.1	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0.1
<i>Grevillea crithmifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea olivacea</i> P4	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea preissii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea robusta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea vestita</i>	0	0	0	0	0	0	0	0	1	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0
<i>Guichenotia ledifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hakea lissocarpha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	1	0.2	0
<i>Hakea prostrata</i>	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hakea trifurcata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0
<i>Hardenbergia comptoniana</i>	0	0.1	0	0	0	0	0	0	0.1	0	0	0	0.1	0	0	0	0.1	0	0	0.1	10	1	0.1	0.1	
<i>Hemiantra glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibbertia cuneiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Hibbertia hypericoides</i>	2	0.1	0.1	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.1	0	0	5	0	0	0	3	
<i>Hovea trisperma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Hypocalymma angustifolium</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypocalymma robustum</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	MF5Q-01	MF5Q-02	MF5Q-03	MF5R-01	MF5R-02	MF5R-03	MF5R-04	MF5R-05	MF5R-06	MF5R-07	MF5R-08	MF5R-09	MF5R-10	MF5R-11	MF5R-12	MF5R-13	MF5R-14	MF5R-15	MF5R-16	MFQ-02	MFQ-03	MFQ-04	MFQ-05	MFQ-06
<i>Iridaceae</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0
<i>Isotropis cuneifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacksonia calcicola</i>	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0
<i>Jacksonia furcellata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
<i>Jacksonia sericea</i> P4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacksonia sternbergiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	8
<i>Kunzea glabrescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagenophora huegelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
<i>Lechenaultia linarioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Lepidosperma calcicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1	0.1	2.2
<i>Lepidosperma leptostachyum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
<i>Lepidosperma</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
<i>Leucopogon propinquus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	1
<i>Lomandra caespitosa</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra hermaphrodita</i>	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.5	0	0.1
<i>Lomandra nigricans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra preissii</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
<i>Lomandra suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macrozamia fraseri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macrozamia riedlei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
<i>Melaleuca cardiophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca huegelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca nesophila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0
<i>Melaleuca systema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca viminea</i>	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melia azedarach</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mesomelaena pseudostygia</i>	30	0	30	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0	0	0	0	0	0.1	1	1	5
<i>Microtis media</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
<i>Olearia axillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Opercularia vaginata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
<i>Petrophile axillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Petrophile brevifolia</i> subsp. <i>brevifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Petrophile linearis</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Petrophile macrostachya</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
<i>Phyllanthus calycinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
<i>Pimelea sulphurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
<i>Podolepis gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Podotheca gnaphalioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
<i>Poranthera microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0

Species	MF5Q-01	MF5Q-02	MF5Q-03	MF5R-01	MF5R-02	MF5R-03	MF5R-04	MF5R-05	MF5R-06	MF5R-07	MF5R-08	MF5R-09	MF5R-10	MF5R-11	MF5R-12	MF5R-13	MF5R-14	MF5R-15	MF5R-16	MFQ-02	MFQ-03	MFQ-04	MFQ-05	MFQ-06	
<i>Pterostylis recurva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ricinocarpos tuberculatus</i> P2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scaevola canescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0.1
<i>Scaevola crassifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scaevola repens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
<i>Schoenus clandestinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schoenus grandiflorus</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sowerbaea laxiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Spyridium globulosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stirlingia latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Synaphea spinulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Templetonia retusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thelymitra</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
<i>Thysanotus manglesianus</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
<i>Trachymene pilosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.1
<i>Tricoryne elatior</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2	1
<i>Xanthorrhoea preissii</i>	10	5	10	0	0	0.1	0	1	1	0	30	2	35	1	0	40	15	0	0	2	20	12	7	3	
<i>Xanthosia huegelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

* denotes introduced (weed) species

Species	MFQ-07	MFQ-08	MFR-02	MFR-03	MFR-06	MFR-08	MFR-10	MFR-12	MFR-14	MFR-16	MFR-18	MFR-20	MFR-22	MFR-24	MFR-26	MFR-28	MFR-30	MFR-32	MFR-34	MFR-36	MFR-38	MFR-40	MFR-42	MFR01	MFR02	MFR04	MFRAS-05	MFQ01	
*Acacia iteaphylla	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	8	10	0	0	0	0	0	0	0	
*Acacia longifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Acacia podalyriifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Agave americana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Aizoon pubescens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Allium triquetrum	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Aloe vera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Arctotheca calendula	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Avena fatua	5	0	0	0.5	5	70	25	5	0	0	0	1	50	10	2	2	5	0	2	0	2	5	0	0	0	0	0	1	5
*Briza maxima	5	30	0	5	5	0	0	0	1	2	0	0	5	0	0	0	1	0	1	0.1	0	0	0.2	0	0	0.1	0	0.1	
*Briza minor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Bromus diandrus	0.1	0	0	0	0	10	0	20	0	0	0	0	0	0	1	0	80	0	20	0.1	0	0	1	20	0	0	0	3	
*Carpobrotus edulis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
*Casuarina equisetifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	
*Cenchrus clandestinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Conyza bonariensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Cotoneaster pannosus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Cynodon dactylon	0	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
*Ehrharta calycina	20	20	0	0.2	0	20	1	0	1	85	10	0	10	1	5	75	2	60	0	85	50	2	20	0	0	0.1	30	5	
*Ehrharta longiflora	5	0	0.1	0	5	0	50	50	50	2	0	2	20	80	60	0	10	0	10	0	0	80	80	0	0.1	0	0	5	
*Eragrostis curvula	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	5	2	
*Erodium botrys	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Euphorbia peplus	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.2	0	0	0	
*Euphorbia terracina	0.1	0.1	0	0	0	0.1	0	0	0.1	0	0.5	0	2	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0.1	
*Ferraria crispa	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	
*Freesia alba x leichtlinii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Fumaria capreolata	0	0	0	0	0	0	1	10	0	0	1	0	0	0	0	0	10	0	0	0	0	3	3	0	0	0	0	0	
*Gazania linearis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
*Genista linifolia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Gladiolus caryophyllaceus	0.1	0.1	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0.1	0	0	0.1	0.1	0	0	0	0	
*Heliophila pusilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	
*Hordeum leporinum	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Hypochaeris glabra	0.1	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	
*Hypochaeris radicata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Ipomoea cairica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Lactuca serriola	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
*Lagurus ovatus	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	
*Leptospermum laevigatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	
*Lupinus angustifolius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	
*Lupinus cosentinii	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	
*Lysimachia arvensis	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	

Species	MFQ-07	MFQ-08	MFR-02	MFR-03	MFR-06	MFR-08	MFR-10	MFR-12	MFR-14	MFR-16	MFR-18	MFR-20	MFR-22	MFR-24	MFR-26	MFR-28	MFR-30	MFR-32	MFR-34	MFR-36	MFR-38	MFR-40	MFR-42	MFR01	MFR02	MFR04	MFRAS-05	MFQ01
* <i>Medicago polymorpha</i>	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Melaleuca armillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0
* <i>Melilotus indicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Monoculus monstrosus</i>	0	0.1	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Moraea flaccida</i>	0.1	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Olea europaea</i>	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Orobanche minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Osteospermum ecklonis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Oxalis pes-caprae</i>	0	0	0.1	0	0	10	20	5	0	0	2	2	10	0	25	15	0	0	0	0	10	15	0	0	0.1	0	0	4
* <i>Pelargonium capitatum</i>	0.1	1	0	0	0	4	3	0	0	0	0	0	0	0	1	10	0	0	20	0	0	0	0	0	0	0	1	3
* <i>Petrorhagia dubia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Phoenix dactylifera</i>	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Polygala myrtifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Ricinus communis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Romulea rosea</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Rostraria cristata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Senecio vulgaris</i>	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
* <i>Silene gallica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Sonchus oleraceus</i>	0.2	0.1	0.1	0.5	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0.2	0	0.2	0	0	0.1	0	0	0.2
* <i>Sparaxis bulbifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Trifolium campestre</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
* <i>Trifolium hirtum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
* <i>Tropaeolum majus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Urospermum picroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Ursinia anthemoides</i>	0.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	2	0	1	0	0
* <i>Vicia sativa</i>	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.1
* <i>Vulpia myuros</i>	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* <i>Watsonia meriana</i>	0	0	0	0	0	0	0	0	0	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia cochlearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<i>Acacia cyclops</i>	0	0	0	0	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.5	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.1
<i>Acacia littorea</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia pulchella</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Acacia rostellifera</i>	0	0	55	5	15	6	0	60	2	5	3	0	2	0	1	30	0	0	0	0	0	0	0	0	45	0	0	0
<i>Acacia saligna</i>	0	0	0	0.2	0	0	1	0	1	0	0	0	1	0	0.5	0	0	0.2	0.1	0	0	0	0	0.1	0	0	0	0
<i>Acacia xanthina</i>	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
<i>Acanthocarpus preissii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Adenanthos cygnorum</i>	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agonis flexuosa</i>	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexgeorgea nitens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	MFQ-07	MFQ-08	MFR-02	MFR-03	MFR-06	MFR-08	MFR-10	MFR-12	MFR-14	MFR-16	MFR-18	MFR-20	MFR-22	MFR-24	MFR-26	MFR-28	MFR-30	MFR-32	MFR-34	MFR-36	MFR-38	MFR-40	MFR-42	MFR01	MFR02	MFR04	MFRAS-05	MFQ01
<i>Allocasuarina campestris</i>	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Allocasuarina fraseriana</i>	10	10	0	0	0	0	10	0	0	0	0	0	0	6	4	6	0	0	0	0	0	0	25	0	0	0	0	0
<i>Allocasuarina humilis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<i>Allocasuarina lehmanniana</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angophora costata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anigozanthos manglesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
<i>Austrostipa flavescens</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Banksia attenuata</i>	2	20	0	0	5	0	0	0	1	0	0	0	0	3	6	0	0	0	0	18	0	0	0	0	0	10	0	0
<i>Banksia grandis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia menziesii</i>	5	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia nivea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia prionotes</i>	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia sceptrum</i>	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Banksia sessilis</i>	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0
<i>Banksia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Beaufortia aestiva</i>	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Billardiera heterophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bossiaea eriocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Burchardia congesta</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Caesia micrantha</i>	0	0.1	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caladenia arenicola</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caladenia flava</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caladenia latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Callistemon viminalis</i> 'Kings Park Special'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Callitris preissii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Calothamnus quadrifidus</i>	0	1	0	0	0	0	3	5	0	0	0	0	5	0	0	0	0	8	1	0	0	0	0	0	0	0	0.1	0
<i>Chamelaucium uncinatum</i>	0	0	0	0	0	0	0	10	10	1	0	0	0	0	6	0	0	0	0	3	0	0	0	40	0	0	0	0
<i>Clematis linearifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clematis pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostephium pendulum</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostylis aculeata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Conostylis aculeata</i> subsp. <i>aculeata</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostylis aculeata</i> subsp. <i>cygnorum</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Conostylis setigera</i> subsp. <i>setigera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Corymbia calophylla</i>	0	0	0	2	0	0	0	0	0	0	80	5	0	0	0	0	0	6	0	3	3	3	0	0	0	0	0	0
<i>Corynotheca micrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Daucus glochidiatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Daviesia divaricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0
<i>Daviesia nudiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Daviesia triflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0

Species	MFQ-07	MFQ-08	MFR-02	MFR-03	MFR-06	MFR-08	MFR-10	MFR-12	MFR-14	MFR-16	MFR-18	MFR-20	MFR-22	MFR-24	MFR-26	MFR-28	MFR-30	MFR-32	MFR-34	MFR-36	MFR-38	MFR-40	MFR-42	MFR01	MFR02	MFR04	MFRAS-05	MFQ01	
<i>Desmodium flexuosus</i>	4	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0.1	0	0	0	0	1	
<i>Dianella revoluta</i>	0.1	0.1	0	0	0	0	0	0	0.4	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	
<i>Diuris longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Drosera ?menziesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Drosera erythrorhiza</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drosera macrantha</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Eremaea pauciflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eremaea purpurea</i>	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus adesmophloia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus caesia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus camaldulensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
<i>Eucalyptus conferruminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus erythrocorys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
<i>Eucalyptus gomphocephala</i>	0	0	0	0	0	15	0	10	40	75	15	12	20	25	35	0	50	15	27	5	45	0	0	40	0	0	0	40	
<i>Eucalyptus horistes</i>	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus leucoxylon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
<i>Eucalyptus marginata</i>	25	0	0	0	4	0	25	0	0	45	0	20	0	25	25	30	0	4	0	0	0	0	20	0	0	0	0	0	0
<i>Eucalyptus petrensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus platypus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
<i>Eucalyptus rudis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eucalyptus sideroxylon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0
<i>Eucalyptus todtiana</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gompholobium tomentosum</i>	0.2	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	0	0
<i>Grevillea crithmifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea olivacea</i> P4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	15	5	0	0	0	0	0	0	0	0
<i>Grevillea preissii</i>	0	0	0	0	0	0	20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea robusta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
<i>Grevillea vestita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Guichenotia ledifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hakea lissocarpha</i>	1	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0
<i>Hakea prostrata</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hakea trifurcata</i>	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
<i>Hardenbergia comptoniana</i>	0.2	0.1	0	0	0	2	3	0	0	0.2	0	0	0	0	1	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0.1
<i>Hemiandra glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibbertia cuneiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibbertia hypericoides</i>	30	0.1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
<i>Hovea trisperma</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypocalymma angustifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypocalymma robustum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Iridaceae</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	MFQ-07	MFQ-08	MFR-02	MFR-03	MFR-06	MFR-08	MFR-10	MFR-12	MFR-14	MFR-16	MFR-18	MFR-20	MFR-22	MFR-24	MFR-26	MFR-28	MFR-30	MFR-32	MFR-34	MFR-36	MFR-38	MFR-40	MFR-42	MFR01	MFR02	MFR04	MFRAS-05	MFQ01	
<i>Isotropis cuneifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Jacksonia calcicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacksonia furcellata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacksonia sericea</i> P4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacksonia sternbergiana</i>	0	0	0	0	0	0	0	0	0	0	1	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kunzea glabrescens</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagenophora huegelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lechenaultia linarioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidosperma calcicola</i>	0.1	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidosperma leptostachyum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidosperma</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucopogon propinquus</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra caespitosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra hermaphrodita</i>	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Lomandra nigricans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra preissii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lomandra suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
<i>Macrozamia fraseri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macrozamia riedlei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca cardiophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	3	0	20	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca huegelii</i>	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
<i>Melaleuca lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca nesophila</i>	0	0	0	0	4	0	15	0	3	0	0	0	0	50	0	0	0	0	2	0	0	20	0	0	0	0	0	0	0
<i>Melaleuca</i> sp.	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
<i>Melaleuca systema</i>	0	0	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	5	0	0
<i>Melaleuca viminea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melia azedarach</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mesomelaena pseudostygia</i>	4	39	0	0.2	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.1	0	0.1	0	0	0
<i>Microtis media</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.1	0	0	0	0	0
<i>Olearia axillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
<i>Opercularia vaginata</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Petrophile axillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0
<i>Petrophile brevifolia</i> subsp. <i>brevifolia</i>	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Petrophile linearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Petrophile macrostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus calycinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pimelea sulphurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Podolepis gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Podotheca gnaphalioides</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
<i>Poranthera microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterostylis recurva</i>	0.1	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	MFQ-07	MFQ-08	MFR-02	MFR-03	MFR-06	MFR-08	MFR-10	MFR-12	MFR-14	MFR-16	MFR-18	MFR-20	MFR-22	MFR-24	MFR-26	MFR-28	MFR-30	MFR-32	MFR-34	MFR-36	MFR-38	MFR-40	MFR-42	MFR01	MFR02	MFR04	MFRAS-05	MFQ01
<i>Rhagodia baccata</i> subsp. <i>baccata</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ricinocarpos tuberculatus</i> P2	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scaevola canescens</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Scaevola crassifolia</i>	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scaevola repens</i>	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schoenus clandestinus</i>	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schoenus grandiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sowerbaea laxiflora</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0
<i>Spyridium globulosum</i>	0	0.1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.1
<i>Stirlingia latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Synaphea spinulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Templetonia retusa</i>	0	0	0.5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	1
<i>Thelymitra</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thysanotus manglesianus</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Trachymene pilosa</i>	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
<i>Tricoryne elatior</i>	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0.1	0	0	0	0
<i>Xanthorrhoea preissii</i>	4	10	0	0	6	0	2	0	0	6	2	6	0	3	6	0	0	0	0	1.5	0	0	6	0.1	0	2	5	1
<i>Xanthosia huegelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* denotes introduced (weed) species

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Appendix N: Significant Flora and Weeds within the Survey Area

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Table N.1: Locations of conservation significant flora recorded within the survey area (GDA94, Zone50).

Species	Abundance	Cover (%)	Easting (mE)	Northing (mN)
<i>Jacksonia sericea</i> P4	1	0.1	383258	6485748
	1	0.1	383261	6485742
	1	0.1	383485	6485499
	1	0.1	383475	6485479
	1	0.1	384713	6482271
	1	0.1	383051	6485995
	1	0.1	383055	6485996
	1	0.1	383044	6485999
	1	0.1	383540	6485413
	1	0.1	383538	6485413
	1	0.1	383538	6485413
	1	0.1	383534	6485413
	1	0.1	383532	6485413
	1	0.1	383527	6485420
	1	0.1	383522	6485427
	1	0.1	383524	6485428
1	0.1	383526	6485436	

Table N.2: Locations of introduced flora listed as Weeds of National Significance and declared pest plants within the survey area (GDA94, Zone50) (Australian Weeds Committee 2012, Department of Agriculture and Food Western Australia 2016).

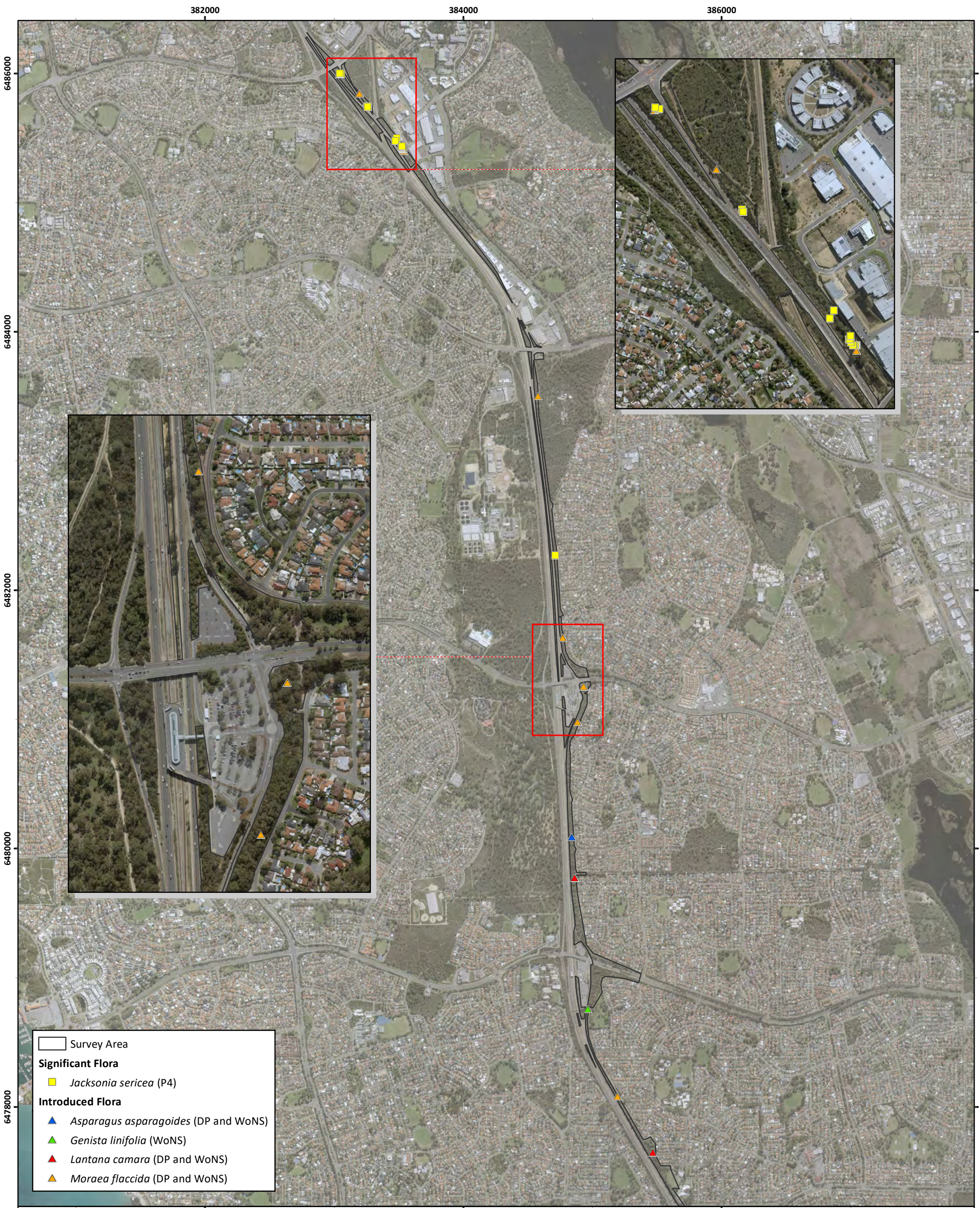
Species	Abundance	Cover (%)	Easting (mE)	Northing (mN)
<i>*Moraea flaccida</i>	3	0.1	384579	6483503
	1	0.1	383540	6485399
	5	0.1	384884	6480981
	1	0.1	385195	6478082
	20	0.1	383042	6485993
	20	0.1	383195	6485847
	2	0.1	384771	6481634
	4	0.1	384931	6481254
<i>*Lantana camara</i>	1	0.1	384862	6479773
	1	0.1	385465	6477647
<i>*Asparagus asparagoides</i>	1	0.1	384840	6480090
<i>*Genista linifolia</i>	1	0.1	384964	6478759

References

Australian Weeds Committee. 2012. Weeds of National Significance 2012. Department of Agriculture, Fisheries and Forestry, Canberra, ACT.

Department of Agriculture and Food Western Australia. 2016. Western Australian Organisms List.

<https://www.agric.wa.gov.au/bam/western-australian-organism-list-waol>.



- Survey Area
- Significant Flora**
- *Jacksonia sericea* (P4)
- Introduced Flora**
- ▲ *Asparagus asparagoides* (DP and WoNS)
- ▲ *Genista linifolia* (WoNS)
- ▲ *Lantana camara* (DP and WoNS)
- ▲ *Moraea flaccida* (DP and WoNS)

Main Roads Western Australia
 Mitchell Freeway Widening Southbound and PSP Mitchell Freeway Gaps Hodges Drive to Reid Highway - Biological Survey



Figure N.1: Significant flora and weed locations

Author: C. Dyde	Date: 18-05-2020	Scale: 1:26,347 at A3	N ↑
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevB_200518_FigN1_Flora	Coordinate System: GDA 1994 MGA Zone 50	



Threatened and Priority Flora Report Form

Version 1.3 August 2017

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at <http://dpaw.wa.gov.au> under Standard Report Forms

TAXON: Jacksonia sericea		TPFL Pop. No.: _____	
OBSERVATION DATE: 03/10/2019	CONSERVATION STATUS: P4	New population <input checked="" type="checkbox"/>	
OBSERVER/S: Alexandra Sleep and Bethea Loudon		PHONE:	9421 9600
ROLE: Environmental Scientist / Senior Botanist	ORGANISATION: Astron		

DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place):
 Mitchell Freeway southbound road reserve - see location data attached.

Reserve No.: _____

DBC DISTRICT: _____	LGA: _____	Land manager present: <input type="checkbox"/>	
DATUM:	COORDINATES: (If UTM coords provided, Zone is also required)	METHOD USED:	
GDA94 / MGA94 <input type="checkbox"/>	DecDegrees <input type="checkbox"/> DegMinSec <input type="checkbox"/> UTM <input type="checkbox"/>	GPS <input checked="" type="checkbox"/>	Differential GPS <input type="checkbox"/> Map <input type="checkbox"/>
AGD84 / AMG84 <input type="checkbox"/>	Lat / Northing: _____	No. satellites: _____	Map used: _____
WGS84 <input type="checkbox"/>	Long / Easting: _____	Boundary polygon captured: <input type="checkbox"/>	Map scale: _____
Unknown <input type="checkbox"/>	ZONE: _____		
LAND TENURE:			
Nature reserve <input type="checkbox"/>	Timber reserve <input type="checkbox"/>	Private property <input type="checkbox"/>	Rail reserve <input type="checkbox"/> Shire road reserve <input type="checkbox"/>
National park <input type="checkbox"/>	State forest <input type="checkbox"/>	Pastoral lease <input type="checkbox"/>	MRWA road reserve <input checked="" type="checkbox"/> Other Crown reserve <input type="checkbox"/>
Conservation park <input type="checkbox"/>	Water reserve <input type="checkbox"/>	UCL <input type="checkbox"/> SLK/Pole _____ to _____	Specify other: _____

AREA ASSESSMENT: Edge survey <input type="checkbox"/> Partial survey <input checked="" type="checkbox"/> Full survey <input type="checkbox"/>	Area observed (m ²): _____												
EFFORT: Time spent surveying (minutes): _____	No. of minutes spent / 100 m ² : _____												
POP'N COUNT ACCURACY: Actual <input checked="" type="checkbox"/> Extrapolation <input type="checkbox"/> Estimate <input type="checkbox"/>	Count method: _____ (Refer to field manual for list)												
WHAT COUNTED: Plants <input checked="" type="checkbox"/> Clumps <input type="checkbox"/> Clonal stems <input type="checkbox"/>													
TOTAL POP'N STRUCTURE:													
Alive	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Mature:</th> <th>Juveniles:</th> <th>Seedlings:</th> <th>Totals:</th> </tr> <tr> <td style="text-align: center;">17</td> <td></td> <td></td> <td style="text-align: center;">17</td> </tr> <tr> <td style="text-align: center;">Dead</td> <td></td> <td></td> <td></td> </tr> </table>	Mature:	Juveniles:	Seedlings:	Totals:	17			17	Dead			
Mature:	Juveniles:	Seedlings:	Totals:										
17			17										
Dead													
	Area of pop (m ²): _____ Note: Pls record count as numbers (not percentages) for database.												
QUADRATS PRESENT: No. _____ Size _____ Data attached <input type="checkbox"/>	Total area of quadrats (m ²): _____												
Summary Quad. Totals: Alive													
REPRODUCTIVE STATE: Clonal <input type="checkbox"/> Vegetative <input checked="" type="checkbox"/> Flowerbud <input type="checkbox"/> Flower <input checked="" type="checkbox"/>													
Immature fruit <input type="checkbox"/> Fruit <input type="checkbox"/> Dehisced fruit <input type="checkbox"/> Percentage in flower: _____ %													

CONDITION OF PLANTS: Healthy Moderate Poor Senescent

COMMENT: _____

THREATS - type, agent and supporting information:	Current impact (N-E)	Potential Impact (L-E)	Potential Threat Onset (S-L)
Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. Specify agent where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)			
•	_____	_____	_____
•	_____	_____	_____
•	_____	_____	_____



Threatened and Priority Flora Report Form

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest <input type="checkbox"/>	Granite <input type="checkbox"/>	(on soil surface; eg gravel, quartz fields)	Sand <input checked="" type="checkbox"/>	Red <input type="checkbox"/>	Well drained <input type="checkbox"/>
Hill <input type="checkbox"/>	Dolerite <input type="checkbox"/>		Sandy loam <input type="checkbox"/>	Brown <input checked="" type="checkbox"/>	Seasonally inundated <input type="checkbox"/>
Ridge <input type="checkbox"/>	Laterite <input type="checkbox"/>	0-10% <input type="checkbox"/>	Loam <input type="checkbox"/>	Yellow <input type="checkbox"/>	Permanently inundated <input type="checkbox"/>
Outcrop <input type="checkbox"/>	Ironstone <input type="checkbox"/>	10-30% <input type="checkbox"/>	Clay loam <input type="checkbox"/>	White <input type="checkbox"/>	Tidal <input type="checkbox"/>
Slope <input type="checkbox"/>	Limestone <input checked="" type="checkbox"/>	30-50% <input type="checkbox"/>	Light clay <input type="checkbox"/>	Grey <input type="checkbox"/>	
Flat <input type="checkbox"/>	Quartz <input type="checkbox"/>	50-100% <input type="checkbox"/>	Peat <input type="checkbox"/>	Black <input type="checkbox"/>	
Open depression <input type="checkbox"/>	Specify other: _____		Specify other: _____	Specify other: _____	
Drainage line <input type="checkbox"/>					
Closed depression <input type="checkbox"/>					
Wetland <input type="checkbox"/>					
	Specific Landform Element: roadside				
	(Refer to field manual for additional values)				
CONDITION OF SOIL:	Dry <input type="checkbox"/>	Moist <input type="checkbox"/>	Waterlogged <input type="checkbox"/>	Inundated <input type="checkbox"/>	

VEGETATION CLASSIFICATION*:

Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);
 2. Open shrubland (Hibbertia sp., Acacia spp.);
 3. Isolated clumps of sedges (Mesomelaena tetragona)

1. see data attached

2.

3.

4.

ASSOCIATED SPECIES:

Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 Australian Soil and Land Survey Field Handbook guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT: see attached data for condition of habitat

FIRE HISTORY: Last Fire: Season/Month: _____ Year: _____ Fire Intensity: High Medium Low No signs of fire

FENCING: Not required Present Replace / repair Required Length req'd: _____

ROADSIDE MARKERS: Not required Present Replace / reposition Required Quantity req'd: _____

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: SL012530 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: _____ WA Herb. Regional Herb. District Herb. Other: _____

ATTACHED: Map Mudmap Photo GIS data Field notes Other: _____

COPY SENT TO: Regional Office District Office Other: _____

Submitter of Record: Alexandra Sleep Role: Environmental Scientist Signed: AS Date: 24/01/2019

Please return completed form to **Species And Communities Branch DBCA**, Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by: _____ Sheet No.: _____ Record Entered in Database

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Appendix O: Conservation Significant Fauna and Black Cockatoo Habitat Locations

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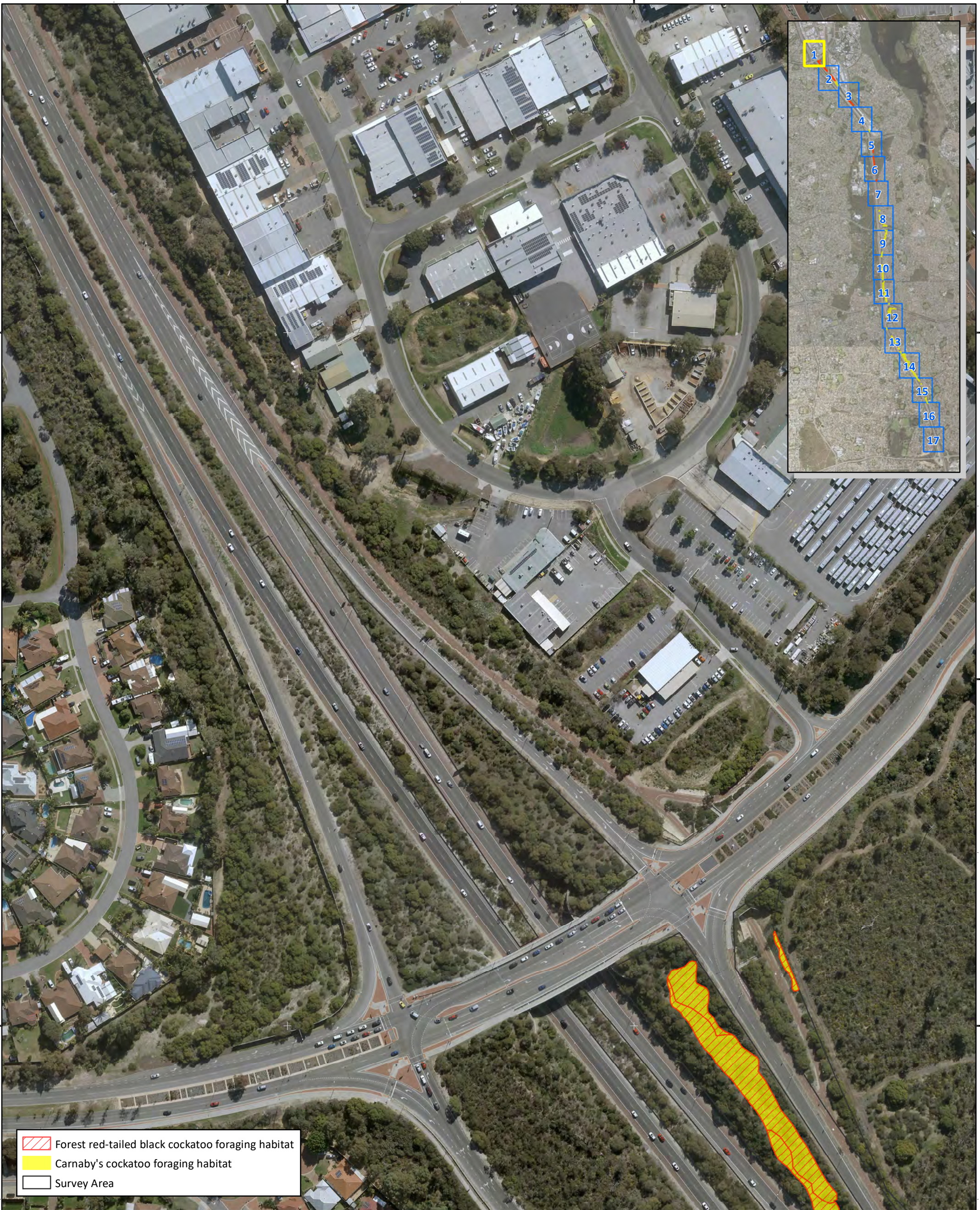
382800

383000

6486400

6486200

6486000



- Forest red-tailed black cockatoo foraging habitat
- Carnaby's cockatoo foraging habitat
- Survey Area

Main Roads Western Australia
 Mitchell Freeway Widening Southbound and PSP Mitchell Freeway Gaps Hodges Drive to Reid Highway - Biological Survey



Figure O.1: Location of conservation significant fauna species and black cockatoo habitat

Author: C. Dyde	Date: 17-06-2020	Scale: 1:2,000 at A3
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevC_200617_BCHabitat_FigO	Coordinate System: GDA 1994 MGA Zone 50



383200

383400

383600

6485800

6485600

6485400

6485200



Forest red-tailed black cockatoo foraging habitat
 Carnaby's cockatoo foraging habitat
 Survey Area
Black cockatoo potential breeding tree
 Jarrah (*Eucalyptus marginata*)
 Tuart (*Eucalyptus gomphocephala*)
 Dead Stag

Main Roads Western Australia
 Mitchell Freeway Widening Southbound and PSP Mitchell Freeway Gaps Hodges Drive to Reid Highway - Biological Survey



Figure O.2: Location of conservation significant fauna species and black cockatoo habitat

Author: C. Dyde	Date: 17-06-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 Metres
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevC_200617_BCHabitat_FigO	

383800

384000

6485400

6485200

6485000

6484800



Forest red-tailed black cockatoo foraging habitat
 Carnaby's cockatoo foraging habitat
 Survey Area
Conservation Significant Fauna Record
 Carnaby's cockatoo (*Calyptorhynchus latirostris*)
Black cockatoo potential breeding tree
 Jarrah (*Eucalyptus marginata*)
 Tuart (*Eucalyptus gomphocephala*)

Main Roads Western Australia
 Mitchell Freeway Widening Southbound and PSP Mitchell Freeway Gaps Hodges Drive to Reid Highway - Biological Survey



Figure O.3: Location of conservation significant fauna species and black cockatoo habitat

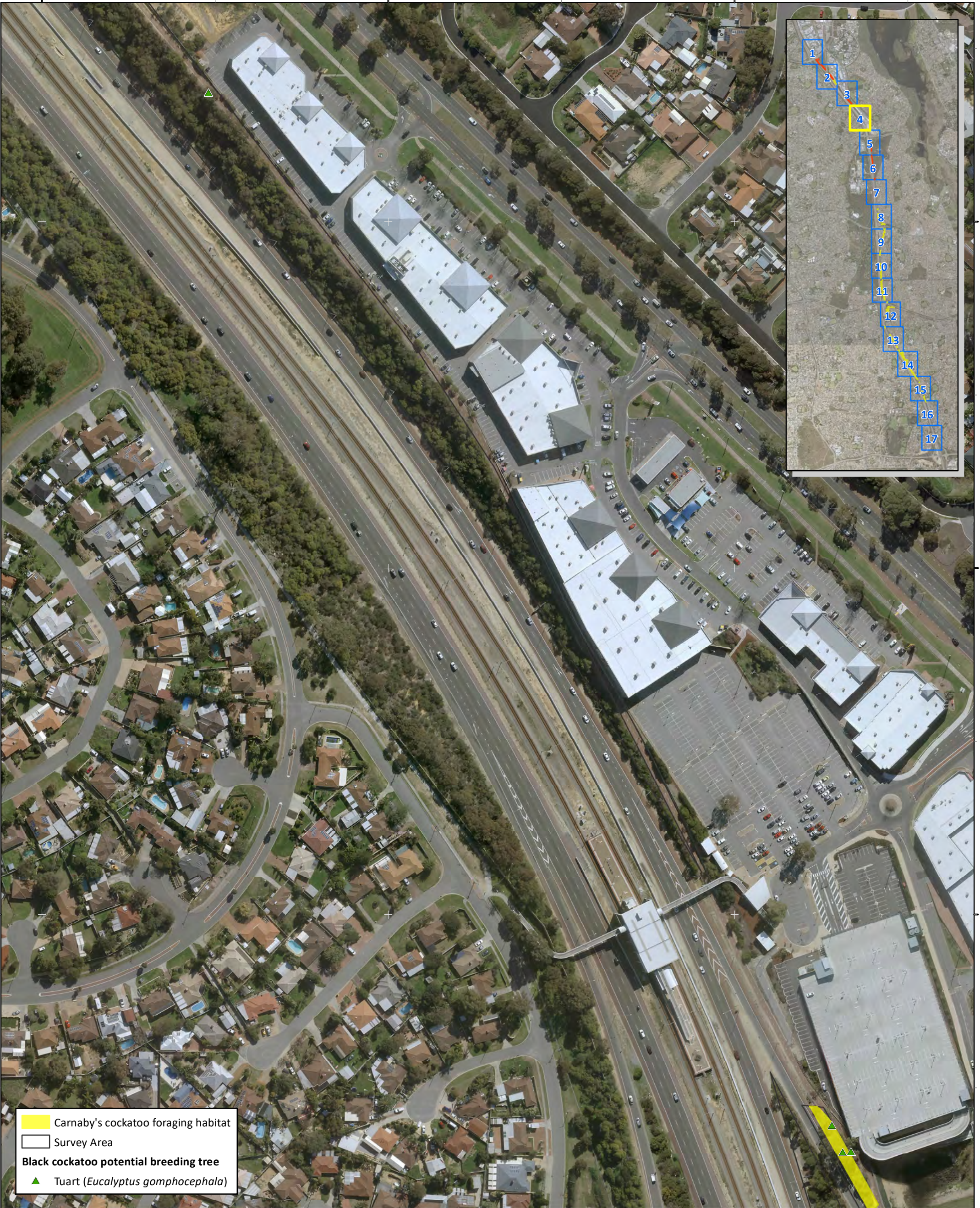
Author: C. Dyde	Date: 17-06-2020	Scale: 1:2,000 at A3 Coordinate System: GDA 1994 MGA Zone 50 0 20 40 60 80 100 Metres
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevC_200617_BCHabitat_FigO	

384000 384200 384400

6484600

6484400

6484200



- Carnaby's cockatoo foraging habitat
- Survey Area
- Black cockatoo potential breeding tree**
- Tuart (*Eucalyptus gomphocephala*)

Main Roads Western Australia
 Mitchell Freeway Widening Southbound and PSP Mitchell Freeway Gaps Hodges Drive to Reid Highway - Biological Survey



Figure O.4: Location of conservation significant fauna species and black cockatoo habitat

Author: C. Dyde	Date: 17-06-2020	Scale: 1:2,000 at A3	
Drawn: A. Sleep	Figure Ref: 8612-19-BIDR-1RevC_200617_BCHabitat_FigO	Coordinate System: GDA 1994 MGA Zone 50	