# Report for Mr Frances (Frank) Sammut

## 90 Dunkeld Drive

## HERRON WA 6211

# In support of APPLICATION TO CLEAR NATIVE VEGETATION UNDER THE ENVIRONMENTAL

## PROTECTION ACT 1986 – REQUEST FOR INFORMATION

Application for an Area Permit to clear vegetation within for the construction of a power line. Cockleshell Gully road area CPS 8992/1 see map.

Report prepared by Donald Williams. Williams and Son.

### Limitations of report.

This report has been compiled by Donald Williams, Williams and Son for Mr Frances (Frank) Sammut. In some circumstances there may be constraints owing to time of survey restraints. October is a preferred time for identification of most species. Flowering of some flora is erratic in a second consecutive below average rainfall year. Every attempt has been made at correct identification and current nomenclature.

The report is based on conditions encountered and information gleaned during preparation of this report. The preparation of this report has been made in a professional and independent manner.

The author appreciates the value of the unique flora of this area and has considerable experience in revegetation and general vegetation of the area. The author is prepared to be involved in the management and continuation of this application.

#### Contents.

- 1 Notes and explanation in support of this application.
- 2 Map showing three sections of survey.
- 3 Flora Surveys conducted 13-10-2020 Species list and notes to each section.
- 4 Rare and Priority Flora with the potential to occur within cps 8992 1.
- 5 Pictures on site.
- 6 References

#### 1 Notes and explanation in support of this application.

Flora surveys were conducted as Transects running East west. 3 parallel transect in each of the 3 sections. The aim was to cove 100% of the area surveyed.

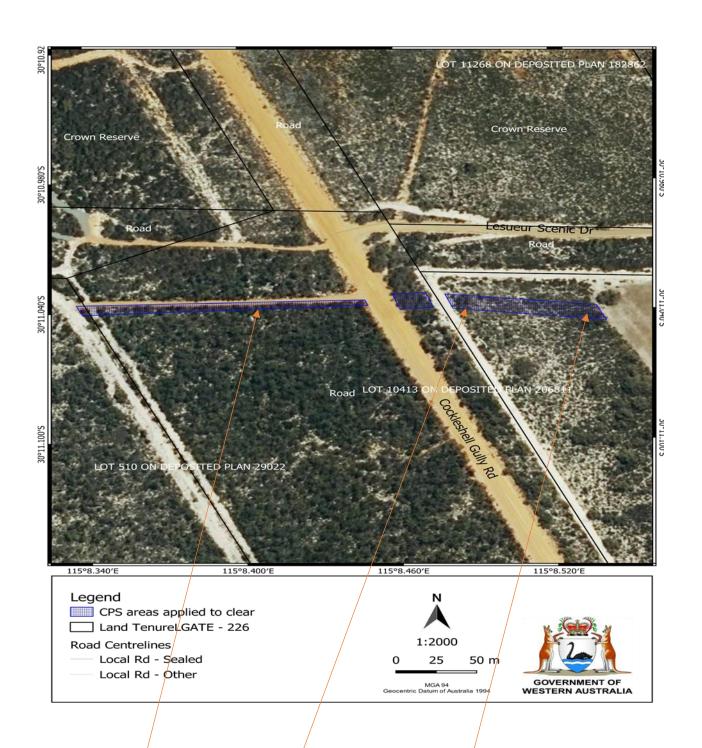
Note that there is an area East of the Cockleshell Gully Road Eastern boundary that has been grazed by domestic stock. This is known to be private freehold land held by the Errington family. Permission for the survey and powerline construction has been granted by this family. See map on page 6. This area is partially degraded. That is a lower density of native vegetation than the other two areas. Also, there is a population of introduced species.

Power poles should if possible be located where regeneration will occur. Phytophthora (Die Back) hygiene should be exercised as area appears to be free of this problem.

No Threatened or priority species were recorded during the survey.

There is no visible indication that the vegetation has been burnt in the last 10 years.

A list of Rare and Priority Flora with the potential to occur within cps 8992 1 has been included. These species were searched for but not located. Late September, October and November is when a large percentage of these species flower. This makes the timing of the survey very satisfactory.



Survey to West of Cockleshell Gully Road.

Survey to East of Cockleshell Gully Road.

Survey to East of Cockleshell Gully Road on private property.

# 3 Flora Surveys conducted 13-10-2020 Species list and notes to each section.

Flora list East of Cockleshell Gully Road Private property (Errington) 13-10-2020.

Actinotus leucocephalus Adenanthos cygnorum S+Vigorous growth. Alexgeorgea subterranea Allocasuarina humilis 1 Anigozanthos humilis 1 Anigozanthos pulcherrimus Aligozanthos pulcherrimus Astrostipa hemipogon 1 Banksia shuttleworthiana Banksia shuttleworthiana Banksia shuttleworthiana Banksia stenoprion Banksia stenop	Species name	% of cover and comments.
Adenanthos cygnorum5+ Vigorous growth.Alexgeorgea subterranea1Allocasuarina humilis1Anigozanthos humilis1Anigozanthos pulcherrimus<1		
Alexgeorgea subterranea         1           Allocasuarina humilis         1           Anigozanthos humilis         1           Anigozanthos pulcherrimus         <1	·	5+ Vigorous growth.
Anigozanthos humilis		<u> </u>
Anigozanthos pulcherrimus Austrostipa hemipogon 1 Banksia shuttleworthiana 8	Allocasuarina humilis	1
Anigozanthos pulcherrimus Austrostipa hemipogon 1 Banksia shuttleworthiana 8	Anigozanthos humilis	1
Austrostipa hemipogon     1       Banksia shuttleworthiana     <1 1 plant only.		<1
Banksia shuttleworthiana<1 1 plant only.Banksia stenoprion3Blancoa canescens<1		1
Banksia stenoprion     3       Blancoa canescens     <1		<1 1 plant only.
Blancoa canescens       <1		
Conospermum crassinervium  Conostylis canteriata  Conostylis teretifolia  Dampiera linearis  Conostylis teretifolia  Dampiera linearis  Conostylis teretifolia  Conostylis teretifolia  Conostylis teretifolia  Conostylis teretifolia  Conostylis teretifolia  Darwinia sanguinea  1  Desmocladus semiplanus  Conostalia semipla		<1
Conospermum crassinervium<1	Cassytha pomiformis or glabella	1
Conostylis canteriata <1 Conostylis teretifolia <1 Dampiera linearis <1 Darwinia sanguinea 1 Desmocladus semiplanus <1 Drosera spilos <1 Eremaea ectadioclada 2 Eucalyptus todtiana 10 Haemodorum spicatum <1 Hakea flabellifolia <11 plant only. Hemiphora bartlingii <1 Hibbertia crassifolia 2 Hybanthus floribundus Subsp. Hill River <1 Jacksonia floribunda 1 Laxmannia sessiliflora Subsp. Drumondii <1 Lechenaultia stenocephala <1 Levenhookia stipata <1 very small number of very small species. Melaleuca carrii 1 Neurachne alopecuroides <1 Patersonia occidentalis <1 Petrophile brevifolia 1 Petrophile trevifolia 1 Podotheca gnaphaloides <1 Scaevola canescens <1 Scaevola canescens <1 Stylidium crossocephalum <1 Thryptomene hyporhytis 1 Thysanotus triandrus <1 Verticordia nobilis <1		<1
Conostylis teretifolia<1	•	<1
Dampiera linearis<1	•	
Darwinia sanguinea1Desmocladus semiplanus<1	·	
Desmocladus semiplanus<1		
Drosera spilos<1Eremaea ectadioclada2Eucalyptus todtiana10Haemodorum spicatum<1		
Eremaea ectadioclada2Eucalyptus todtiana10Haemodorum spicatum<1		
Eucalyptus todtiana10Haemodorum spicatum<1	·	
Haemodorum spicatum<1Hakea flabellifolia<1 1 plant only.		
Hakea flabellifolia<1 1 plant only.		
Hemiphora bartlingii<1	•	
Hibbertia crassifolia2Hybanthus floribundus Subsp. Hill River<1		
Hybanthus floribundus Subsp. Hill River<1Jacksonia floribunda1Laxmannia sessiliflora Subsp. Drumondii<1		
Jacksonia floribunda1Laxmannia sessiliflora Subsp. Drumondii<1	•	
Laxmannia sessiliflora Subsp. Drumondii<1	,	
Lechenaultia stenocephala<1Levenhookia stipata<1 very small number of very small species.	,	<1
Levenhookia stipata<1 very small number of very small species.Melaleuca carrii1Neurachne alopecuroides<1	,	
Melaleuca carrii1Neurachne alopecuroides<1	·	<1 very small number of very small species.
Neurachne alopecuroides<1Patersonia occidentalis<1		
Patersonia occidentalis<1		
Petrophile brevifolia1Petrophile macrostachys<1Petrophile teretifolia<1Podotheca gnaphaloides<1 Large numbers but small cover.Scaevola canescens<1Scaevola repens1Stylidium crossocephalum<1Thryptomene hyporhytis1Thysanotus triandrus<1Verticordia grandis<1Verticordia nobilis<1	-	
Petrophile macrostachys<1Petrophile teretifolia<1		1
Petrophile teretifolia<1		
Podotheca gnaphaloides<1 Large numbers but small cover.Scaevola canescens<1	·	
Scaevola canescens<1Scaevola repens1Stylidium crossocephalum<1		
Scaevola repens1Stylidium crossocephalum<1		
Stylidium crossocephalum<1Thryptomene hyporhytis1Thysanotus triandrus<1		
Thryptomene hyporhytis 1 Thysanotus triandrus <1 Verticordia grandis <1 Verticordia nobilis <1	·	
Thysanotus triandrus <1 Verticordia grandis <1 Verticordia nobilis <1	·	
Verticordia grandis < 1 Verticordia nobilis <1	· · · · · · · · · · · · · · · · · · ·	
Verticordia nobilis <1	•	
P   -		
	, , , , , , , , , , , , , , , , , , ,	

Notes to above Flora list East of Cockleshell Gully road Private property (Errington) 13-10-2020. The vegetation is open as result of livestock grazing. On the Keighery scale 1994 this area would be rated Good (4) There is an established population of introduced species.

Flora list East of Cockleshell Gully Rd verge 13-10-20.

Species name	% of cover and comments.
Acacia blakelyi	5% to 10% dominant on road verge.
Adenanthos cygnorum	10 %
Alexgeorgea subterranea	< 1 Common but sparse nature.
Allocasuarina humilis	1
Anigozanthos manglesii	<1 1 only plant.
Banksia stenoprion	5
Blancoa canescens	<1
Cassytha pomiformis or glabella	<1
Conospermum wycherleyi Subsp glabrum	1
Dampiera linearis	<1
Darwinia sanguineous	<1 less common in undisturbed area.
Eucalyptus todtiana	35 Is the dominant species this site.
Hibbertia crassifolia	1
Jacksonia floribunda	3
Laxmannia sessiliflora Subsp. Drummondii	<1
Mesomelaena tetragona	<1
Scholtzia involucrata	<1
Stirlingia latifolia	<1
Thysanotus triandrus	<1
Thryptomene hyporhytis	1-2%
Tricoryne elatior	< 1 mainly on road verge.
Xanthorrhoea preissii	2 plants only.
Waitzia suaveolens Var suaveolens	<1

Notes to above flora list East of Cockleshell Gully Road, Vegetation is dense. On the Keighery scale 1994 this area would be rated Excellent (2). No invasive weeds. Except on the fire break/buffer between vegetation and private property fence line. There is no evidence of Phytophthora (Die Back).

## Flora list West of Cockleshell Gully Road 13-10-20.

Species name	% of cover and comments
Acacia pulchella	<1
Adenanthos cygnorum	5-10%
Alexgeorgea subterranea	1
Allocasuarina humilis	1
Banksia attenuata	15%
Banksia menziesii	20%
Banksia prionotes	5%
Blancoa canescens	<1
Cassytha pomiformis or glabella	<1
Conospermum crassinervium	<1
Conospermum wycherleyi Subsp glabrum	<1
Conostylis canteriata	<1
Dampiera linearis	<1
Darwinia sanguineous	<1 In disturbed areas
Dasypogon obliquifolius	<1
Desmocladus semiplanus	<1
Drosera porrecta	<1
Eremaea ectadioclada	1
Eucalyptus todtiana	25%
Gompholobium tomentosum	<1
Haemodorum spicatum	<1
Hibbertia crassifolia	<1
Hibbertia subvaginata	<1
Jacksonia floribunda	2
Johnsoniana pubescens	<1
Lasiopetalum drumondii	<1
Neurachne alopecuroides	<1
Patersonia occidentalis	<1
Petrophile linearis	<1
Scaevola repens	<1
Stirlingia latifolia	<1
Stylidium crossocephalum	<1
Stylidium maitlandianum	<1
Scholtzia involucrata	<1
Thysanotus triandrus	<1
Tricoryne elatior	<1 Is not <i>T. Tenella or T</i> Sp. eneabba
Xanthorrhoea preissii	1

Notes to above flora list West of Cockleshell Gully Road. Vegetation is dense. On the Keighery scale 1994 this area would be rated Excellent (2). No invasive weeds. There is a slight edge effect on the North side of the survey. There is no evidence of Phytophthora (Die Back).

# 4 Rare and Priority Flora with the potential to occur within CPS 8992-1

Paracaleana dixonii T Occurs over granite Flowers October January occurs further North I.E. Eneabba not sighted this survey. Cocurs Lesueur National Park and Cockleshell gully area flurs. Oct Nov. I am familiare with this species occurs with more gravel and clay.  Eucalyptus leprophioia T I am familiar with this species as I manage 1 population could not be missed owing to height.  Spirogardnera rubescens T I am familiar with this unique species occurs on Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Occurs in Lesueur NAT Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Does not appear to be any species of the genera Synaphea on this site.  Fersoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded Yeramullah Road. Does not appear to be any species of the genera Persoonia evident at this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded yeramullah Road. Does not appear to be any species of the genera Persoonia evident at this site.  Terratheca angulata P3 There does not a	Species name and conservation status	Notes and explanation
further North I.E. Eneabba not sighted this survey.  Thelymitra stellata  T Occurs Lesueur National Park and Cockleshell gully area flwrs. Oct Nov. I am familiare with this species occurs with more gravel and clay.  Eucalyptus leprophloia  T I am familiar with this species as I manage 1 population could not be missed owing to height.  Spirogardnera rubescens  T I am familiar with this species occurs on Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita  T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma  P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha  P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum  P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs.  Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis  P2 Has been recorded to the East on Cantabilling Road and Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis  P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Synaphea on this site.  Nearest recorded Population over 10 Km. North. There do not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the genera Persoonia evident at this site.  Persoonia filiformis  P3 Flowers yellow Nov. to Dec. There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Pers	'	
Thelymitra stellata T   Occurs Lesueur National Park and Cockleshell gully area flwrs. Oct Nov. I am familare with this species occurs with more gravel and clay.  Eucalyptus leprophloia T   I am familiar with this species as I manage 1 population could not be missed owing to height.  Spirogardnera rubescens T   I am familiar with this unique species occurs on Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita T   I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Hakea megalosperma T   Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1   Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2   Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3   I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P2.  Synaphea lesueurensis P2   Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Fersoonia filiformis P2   Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Fersoonia filiformis P3   Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Fersoonia filiformis P3   There does not appear to be any species of the genera Persoonia evident at this site.  Fersoonia filiformis P3   There does not appear to be any species of the genera Persoonia evident at this site.  Fersoonia filiformis P3		further North I.E. Eneabba not sighted this survey.
flwrs. Oct Nov. I am familiare with this species occurs with more gravel and clay.  Eucalyptus leprophiola T I am familiar with this species as I manage 1 population could not be missed owing to height.  Spirogardnera rubescens T I am familiar with this unique species occurs on Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Hakea megalosperma T Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded to neell drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the genera Synaphea on this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  All reco	Thelymitra stellata T	
with more gravel and clay.  Eucalyptus leprophioia T am familiar with this species as I manage 1 population could not be missed owing to height.  Spirogardnera rubescens T I am familiar with this unique species occurs on Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Hakea megalosperma T Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Fiwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur National park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Persoonia filiformis P3 There does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P3 There does not appear to be any species of the genera Synaphea on this site.  Pau Has been recorded population over 10 km. North. There do not appear to be any species of the genera Strackhousia or Tripterococcus (A related species) at this site.  There does not appear to be any species of the genera Tertatheca at this site.  There does not appear to be any species of the genera Tertatheca at this site.  Appears to oc	•	
Eucalyptus leprophloia T I am familiar with this species as I manage 1 population could not be missed owing to height. Spirogardnera rubescens T I am familiar with this unique species occurs on Tootbardi Road and Marchagee Track in gravel only. Eucalyptus absita T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago. Hakea megalosperma T Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions. Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded to the East on Cantabilling Road and Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Synaphea on this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Synaphea on this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Appears to occur in more open sites than the dense vegetation at this site.  Appears to occur in more open sites than the dense v		· · · · · · · · · · · · · · · · · · ·
could not be missed owing to height.  Spirogardnera rubescens T I am familiar with this unique species occurs on Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Hakea megalosperma T Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flivr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Veramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Fersoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Stackhousia or Tripterococcus (A related species) at this site.  Ferratheca angulata P3 There does not appear to be any species of the genera Stackhousia or Tripterococcus (A related species) at this site.  Ferratheca at this site. Haemodorum spicatum (a more common species) was located in small numbers.  All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thy	Eucalyptus leprophloja T	
Spirogardnera rubescens   T	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Tootbardi Road and Marchagee Track in gravel only.  Eucalyptus absita T I am familiar with this species occurs on Badgingarra Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Hakea megalosperma T Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct. Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Persoonia evident at this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Stackhousia or Tripterococcus (A related species) at this site.  There does not appear to be any species of the genera Tetratheca at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common s	Spirogardnera rubescens T	
Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Armocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.		· · ·
Dandaragan Road and Koonah Road I have conducted a count for CALM some 15 years ago.  Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Armocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.	Eucalyptus absita T	I am familiar with this species occurs on Badgingarra
Count for CALM some 15 years ago.  Hakea megalosperma T Occurs in Lesueur Nat Park and to East on laterite. Not on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 There does not appear to be any species of the genera Persoonia evident at this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Personia evident at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.	,,,	
Drosera allantostigma		
on site in deep white sand  Drosera allantostigma P1 Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Flowers yellow Nov. to Dec. There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.	Hakea meaalosperma T	
Has been recorded to the South East on Cantabilling Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.    Goodenia xanthotricha   P2		
Road main population further upstream on Hill river near Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Goodenia xanthotricha P2 Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Flowers Sept. Oct. Occurs on our property Hi Vallee.	Drosera allantostiama P1	·
Brand Highway. Flwr. Nov to Dec. Loam, silica sand or peaty soils. Margins of winter-wet depressions.  Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Warest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Flowers Sept. Oct. Occurs on our property Hi Vallee.		_
Peaty soils. Margins of winter-wet depressions.		· ·
Has only been recorded on well drained sites mainly hillsides and hilltops in rocky lateritic areas. Flowers Nov to Feb. No Goodenia on site.    Arnocrinum gracillimum		, ·
to Feb. No Goodenia on site.  Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur National Park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Flowers Sept. Oct. Occurs on our property Hi Vallee.	Goodenia xanthotricha P2	
Arnocrinum gracillimum P3 I am familiar with this species occurs on our Property Hi Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		hillsides and hilltops in rocky lateritic areas. Flowers Nov
Vallee occurs in deep white well drained sands. Flwrs. Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		to Feb. No Goodenia on site.
Oct, Nov. Not located on this survey. Was P 2.  Synaphea lesueurensis P2 Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	Arnocrinum gracillimum P3	I am familiar with this species occurs on our Property Hi
Has been recorded to the East on Cantabilling Road and Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		Vallee occurs in deep white well drained sands. Flwrs.
Lesueur national park. Main population to the North in Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		Oct, Nov. Not located on this survey. Was P 2.
Lesueur National Park. Does not appear to be any species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	Synaphea lesueurensis P2	Has been recorded to the East on Cantabilling Road and
species of the genera Synaphea on this site.  Synaphea xela P2 Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		Lesueur national park. Main population to the North in
Has been recorded Yeramullah Road. Does not appear to be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		Lesueur National Park. Does not appear to be any
be any species of the genera Synaphea on this site.  Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		species of the genera Synaphea on this site.
Persoonia filiformis P2 Flowers yellow Nov. to Dec. There does not appear to be any species of the genera Persoonia evident at this site.  Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	Synaphea xela P2	Has been recorded Yeramullah Road. Does not appear to
any species of the genera Persoonia evident at this site.  Stackhousia Sp. Red blotched corolla P3 Nearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		be any species of the genera Synaphea on this site.
Stackhousia Sp. Red blotched corolla P3 Rearest recorded population over 10 Km. North. There do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	Persoonia filiformis P2	Flowers yellow Nov. to Dec. There does not appear to be
do not appear to be any species of the Genera Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		any species of the genera Persoonia evident at this site.
Stackhousia or Tripterococcus (A related species) at this site.  Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	Stackhousia Sp. Red blotched corolla	Nearest recorded population over 10 Km. North. There
Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	P3	do not appear to be any species of the Genera
Tetratheca angulata P3 There does not appear to be any species of the genera Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		Stackhousia or Tripterococcus (A related species) at this
Tetratheca at this site.  Haemodorum loratum P3 Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		site.
Haemodorum loratumP3Appears to occur in more open sites than the dense vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.Thysanotus ancepsP3All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.Phlebocarya pilosissima subsp.Flowers Sept. Oct. Occurs on our property Hi Vallee.	Tetratheca angulata P3	There does not appear to be any species of the genera
vegetation at this site. Haemodorum spicatum (a more common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		
common species) was located in small numbers.  Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.	Haemodorum loratum P3	Appears to occur in more open sites than the dense
Thysanotus anceps P3 All records indicate that this species is a sandy gravel species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		
species. Has been locate at Mount Peron. Thysanotus triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp.  Flowers Sept. Oct. Occurs on our property Hi Vallee.		common species) was located in small numbers.
triandrus was located on site and has several different characteristics.  Phlebocarya pilosissima subsp.  Flowers Sept. Oct. Occurs on our property Hi Vallee.	Thysanotus anceps P3	All records indicate that this species is a sandy gravel
characteristics.  Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		species. Has been locate at Mount Peron. Thysanotus
Phlebocarya pilosissima subsp. Flowers Sept. Oct. Occurs on our property Hi Vallee.		triandrus was located on site and has several different
		characteristics.
pilosissima P3 Appears to be located more inland (East)	Phlebocarya pilosissima subsp.	Flowers Sept. Oct. Occurs on our property Hi Vallee.
	pilosissima P3	Appears to be located more inland (East)

Notes and explanation  I am very familiar with this species as I manage a population on Hi Vallee. Occurs in clay to laterite in
association with lateritic Mesas. Soil type is not suitable
for this species on the site.
I am very familiar with this species as I manage a
population on Hi Vallee. Has a distinctive square stem
hence name. Does not occur at site
Has been recorded north end of Nylagarda road. The
Verticordias on site (Noblis and Grandis) flower Yellow
and Red respectively) V. fragrans flowers white. Not on
site.
Has been recorded north end of Nylagarda road. There
are the species Austrostipa hemipogon located on site.
Nearest recorded population western end of Cantabilling
Road. Flowers red to pink. Stylidium crossocephalum on
site flowers white.
This species is described as low scraggly or scrambling
shrub. Gompholobium tomentosa occurs on site and is
very upright in form.
I am very familiar with this species as I have counted
many in the Watheroo National Park. This species occurs
in very well drained white to yellow sand. Has different
form and leaves to the two Verticordia on site.
Does not appear to have been recoded west of
Cockleshell Gully Road. Thysanotus on this site appears
to Thysanotus triandrus.
There does not appear to be any species of the Genera
Guichenotia on this site. This may change after fire.
I am very familiar with this species as I have collected the
species for research purposes. Mast A.R. Williams D. Coll.
No. 629 This species occurs considerably further East
that this site, Tootbardi Road.
This genera Conostephium was not present in this survey
area. Conostephium pendulum occurs elsewhere on the
Sammut property.
Occurs from the North boundary of Dandaragan shire
Northwards to Irwin. Would not be at this site.
This species is extremely distinctive with large blue ovate
leaves. Does not occur on site
I am very familure with this species. It occurs in lower
more open Kwongan vegetation.
I am very familiar with this species It occurs on very well
drained lateritic soils. No species of the genera grevillea
on this site.
I am very familiar with this species as I manage a
population on Hi Vallee. Desmocladus semiplanus was
recorded on this site.
recorded on this site.
Not recorded on site has distinctive form. Thysanotus on
Not recorded on site has distinctive form. Thysanotus on this site appears to Thysanotus triandrus.

Species name and conservation status	Notes and explanation
Eucalyptus pendens P4	I am very familiar with this species as I manage the largest single population of this species in Western Australia on Hi Vallee, occurs on high lateritic soils. Does not occur at site.
Calytrix chrysantha P4	No species of the genera Calytrix located in this survey. Calytrix depressa located elsewhere on Sammut property.
Hakea neurophylla P4	I am very familiar with this species as I manage a population of this species on Hi Vallee, It occurs on clay lateritic soils in conjunction with lateritic mesas. It has very distinctive nerved leaves hence the name. Does not occur at site.

## 5 Pictures on site.



Showing open nature of Eastern most site (Private Property).



Showing Dense vegetation East side of Cockleshell Gully Road.

#### 6 References.

Brooker and Kleinig. Field Guide to Eucalyptus Volume 2.

Margaret G. Corrick. Bruce A. Fuhrer. and Alexander S. George. Wildflowers of Southern WESTERN AUSTRALIA.

Kevin Collins, Kathy Collins & Alex George. Banksias

Jolanda Keeble. Don & Joy Williams and Mike Hislop. Field guide to Hi Vallee Farm.

BMJ Hussey. G.J. Keighery. R.D. Cousens. J.Dodd. S.G. Lloyd Western Weeds A guide to the weeds of Western Australia Western Australia.

W.E. Blackall and B.J. Grieve. How to know Western Australian Wildflowers Vol 1, 2 and 3b.

Florabase The Western Australian Flora.