<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinct</td>
<td>A species is extinct if there is no reasonable doubt that the last member of the species has died.</td>
</tr>
<tr>
<td>Extinct in the Wild</td>
<td>A species is categorised as extinct in the wild if it is only known to survive in cultivations, in captivity, or as a naturalised population well outside its past range; or if it has not been recorded in its known/expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.</td>
</tr>
<tr>
<td>Critically Endangered</td>
<td>The species is facing an extremely high risk of extinction in the wild and in the immediate future.</td>
</tr>
<tr>
<td>Endangered</td>
<td>The species is likely to become extinct unless the circumstances and factors threatening its abundance, survival, or evolutionary development cease to operate; or its numbers have been reduced to such a critical level, or its habitats have been so drastically reduced, that it is in immediate danger of extinction.</td>
</tr>
<tr>
<td>Vulnerable</td>
<td>Within the next 25 years, the species is likely to become endangered unless the circumstances and factors threatening its abundance, survival or evolutionary development cease to operate.</td>
</tr>
<tr>
<td>Conservation Dependent</td>
<td>The species is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.</td>
</tr>
</tbody>
</table>
APPENDIX 2    Conservation Codes for Western Australian Flora.

<table>
<thead>
<tr>
<th>Conservation Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R: Declared Rare Flora - Extant Taxa</strong></td>
<td>Taxa which have been adequately searched for, and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.</td>
</tr>
<tr>
<td><strong>1: Priority One - Poorly Known Taxa</strong></td>
<td>Taxa that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.</td>
</tr>
<tr>
<td><strong>2: Priority Two - Poorly Known Taxa</strong></td>
<td>Taxa that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.</td>
</tr>
<tr>
<td><strong>3: Priority Three - Poorly Known Taxa</strong></td>
<td>Taxa that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Taxa may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.</td>
</tr>
<tr>
<td><strong>4: Priority Four - Rare, Near Threatened and other taxa in need of monitoring</strong></td>
<td>(a) Rare. Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands. (b) Near Threatened. Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. (c) Taxa that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.</td>
</tr>
<tr>
<td><strong>5: Priority Five - Conservation Dependent taxa</strong></td>
<td>Taxa that are not threatened but are subject to a specific conservation program, the cessation of which would result in the taxa becoming threatened within five years.</td>
</tr>
</tbody>
</table>
APPENDIX 3  Review of nomenclature from previous flora and vegetation surveys prior to inclusion of data into species by site matrix used in multivariate statistical analysis. Note: taxonomic status against the latest update to the Census of Western Australian Plants (CWAP) via Max V3 (DEC, 2010c).

<table>
<thead>
<tr>
<th>Former Species Name</th>
<th>Action</th>
<th>Corrected Species Name</th>
<th>Reason for Exclusion/ Inclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aristida jerichoensis</td>
<td>combine with</td>
<td>Aristida jerichoensis subsp. subspinulifera</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Bonamia media</td>
<td>combine with</td>
<td>Bonamia media var. villosa</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Clerodendrum ?tomentosum</td>
<td>combine with</td>
<td>Clerodendrum tomentosum var. lanceolatum</td>
<td>Most probable subspecies</td>
</tr>
<tr>
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<td>combine with</td>
<td>Corymbia deserticola subsp. deserticola</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Corymbia deserticola</td>
<td>combine with</td>
<td>Corymbia deserticola subsp. deserticola</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Dodonaea viscosa</td>
<td>combine with</td>
<td>Dodonaea viscosa subsp. mucronata</td>
<td>Most probable subspecies</td>
</tr>
<tr>
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<td>combine with</td>
<td>Eremophila jucunda subsp. pulcherrima</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Eremophila fraseri</td>
<td>combine with</td>
<td>Eremophila fraseri subsp. fraseri</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Eremophila jucunda</td>
<td>combine with</td>
<td>Eremophila jucunda subsp. pulcherrima</td>
<td>Most probable subspecies</td>
</tr>
<tr>
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<td>combine with</td>
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<td>Most probable subspecies</td>
</tr>
<tr>
<td>Eucalyptus ?socialis</td>
<td>combine with</td>
<td>Eucalyptus socialis subsp. eucentrica</td>
<td>Most probable subspecies</td>
</tr>
<tr>
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<td>combine with</td>
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<td>Most probable subspecies</td>
</tr>
<tr>
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<td>combine with</td>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>Most probable subspecies</td>
</tr>
<tr>
<td>Eucalyptus socialis</td>
<td>combine with</td>
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<td>Most probable subspecies</td>
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<td>combine with</td>
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<td>Most probable subspecies</td>
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<tr>
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<td>combine with</td>
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<tr>
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<td>Action</td>
<td>Corrected Species Name</td>
<td>Reason for Exclusion/ Inclusion</td>
</tr>
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<td>combine with</td>
<td>Senna artemisioides subsp. helmsii x oligophylla</td>
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<td>combine with</td>
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<td>Probable correct identification</td>
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<td>combine with</td>
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<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
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</tr>
<tr>
<td>Abutilon ?fraseri</td>
<td>combine with</td>
<td>Abutilon fraseri</td>
<td>Probable correct identification</td>
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<td>Acacia rhodophloia</td>
<td>Probable correct identification</td>
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<tr>
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<td>combine with</td>
<td>Acacia sibirica</td>
<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
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<td>Probable correct identification</td>
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</tr>
<tr>
<td>Former Species Name</td>
<td>Action</td>
<td>Corrected Species Name</td>
<td>Reason for Exclusion/Inclusion</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------------</td>
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<td>--------------------------------</td>
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</tr>
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<td>combine with</td>
<td>Amyema fitzgeraldii</td>
<td>Probable correct identification</td>
</tr>
<tr>
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<td>combine with</td>
<td>Aristida obscura</td>
<td>Probable correct identification</td>
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<tr>
<td>Chenchrus cf. ciliaris</td>
<td>combine with</td>
<td>Chenchrus ciliaris</td>
<td>Probable correct identification</td>
</tr>
<tr>
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<td>combine with</td>
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<td>Probable correct identification</td>
</tr>
<tr>
<td>Chrysocephalum aff. apiculatum</td>
<td>combine with</td>
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<td>Probable correct identification</td>
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<tr>
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<td>Probable correct identification</td>
</tr>
<tr>
<td>Cymbopogon ?procerus</td>
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<tr>
<td>Cymbopogon cf. procerus</td>
<td>combine with</td>
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<td>Probable correct identification</td>
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<tr>
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<tr>
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<tr>
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<td>combine with</td>
<td>Eragrostis eriopoda</td>
<td>Probable correct identification</td>
</tr>
<tr>
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<td>combine with</td>
<td>Eremophila clarkei</td>
<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
<td>Eremophila forrestii subsp. forrestii</td>
<td>Probable correct identification</td>
</tr>
<tr>
<td>Eremophila ?lanceolata</td>
<td>combine with</td>
<td>Eremophila lanceolata</td>
<td>Probable correct identification</td>
</tr>
<tr>
<td>Eremophila latrobei subsp. ?latrobei</td>
<td>combine with</td>
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<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
<td>Eriachne mucronata</td>
<td>Probable correct identification</td>
</tr>
<tr>
<td>Former Species Name</td>
<td>Action</td>
<td>Corrected Species Name</td>
<td>Reason for Exclusion/ Inclusion</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------</td>
<td>---------------------------------------------------</td>
<td>-----------------------------------------------------</td>
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<td>combine with</td>
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<td>Probable correct identification</td>
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<td>combine with</td>
<td>Hibiscus burtonii</td>
<td>Probable correct identification</td>
</tr>
<tr>
<td>Hibiscus aff.coatesii</td>
<td>combine with</td>
<td>Hibiscus coatesii</td>
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<td>Indigofera brevidens</td>
<td>Probable correct identification</td>
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<tr>
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<td>combine with</td>
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<td>combine with</td>
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<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
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<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
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<td>combine with</td>
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<td>Probable correct identification</td>
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<td>Sida ?ectogama</td>
<td>combine with</td>
<td>Sida ectogama</td>
<td>Probable correct identification</td>
</tr>
<tr>
<td>Sida ?fibulifera</td>
<td>combine with</td>
<td>Sida fibulifera</td>
<td>Probable correct identification</td>
</tr>
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<td>combine with</td>
<td>Sida sp. Dark green fruits (S.van Leeuwen2260)</td>
<td>Probable correct identification</td>
</tr>
<tr>
<td>Sida ?sp. spiciform panicles</td>
<td>combine with</td>
<td>Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)</td>
<td>Probable correct identification</td>
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<tr>
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220
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<td>Reason for Exclusion/ Inclusion</td>
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### APPENDIX 4  Vegetation Classifications for the Pilbara based on Specht (1970), as modified by Aplin (1979) and Trudgen (2009).

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<tbody>
<tr>
<td></td>
<td>100 - 70%</td>
</tr>
<tr>
<td>Trees &gt; 30 m</td>
<td>High Closed Forest</td>
</tr>
<tr>
<td>Trees 10-30 m</td>
<td>Closed Forest</td>
</tr>
<tr>
<td>Trees &lt; 10 m</td>
<td>Low Closed Woodland</td>
</tr>
<tr>
<td>Mallee</td>
<td>Closed Mallee</td>
</tr>
<tr>
<td>Shrubs &gt; 2 m</td>
<td>Closed Scrub</td>
</tr>
<tr>
<td>Shrubs 1-2 m</td>
<td>Closed Heath</td>
</tr>
<tr>
<td>Shrubs &lt; 1 m</td>
<td>Low Closed Heath</td>
</tr>
<tr>
<td>Hummock Grass</td>
<td>Closed Hummock Grassland</td>
</tr>
<tr>
<td>Tussock Grass</td>
<td>Closed Tussock Grassland</td>
</tr>
<tr>
<td>Bunch Grass</td>
<td>Closed Bunch Grassland</td>
</tr>
<tr>
<td>Sedges</td>
<td>Closed Sedges</td>
</tr>
<tr>
<td>Herbs</td>
<td>Closed Herbs</td>
</tr>
</tbody>
</table>

Source: S. Van Leeuwen (DEC)
APPENDIX 5 Vegetation condition scale (as developed by Keighery 1994).

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>SCALE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pristine</td>
<td>1</td>
<td>Pristine or nearly so, no obvious signs of disturbance.</td>
</tr>
<tr>
<td>Excellent</td>
<td>2</td>
<td>Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.</td>
</tr>
<tr>
<td>Very Good</td>
<td>3</td>
<td>Vegetation structure altered; obvious signs of disturbance.</td>
</tr>
<tr>
<td>Good</td>
<td>4</td>
<td>Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it.</td>
</tr>
<tr>
<td>Degraded</td>
<td>5</td>
<td>Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching Very Good condition without intensive management.</td>
</tr>
<tr>
<td>Completely Degraded</td>
<td>6</td>
<td>The structure of the vegetation is no longer intact and the area is completely or almost completely without native species.</td>
</tr>
</tbody>
</table>
APPENDIX 6  Multivariate Statistical Analysis for floristic data collected from 501 study sites within the Area C and Surrounds Study area.

SUMMARY

A multivariate analysis was carried out on floristic quadrat data from within and near BHPBIO’s Area C operations area in the Pilbara. The dataset includes data from eight surveys including three recent surveys by Onshore Environmental.

The large size of the dataset posed particular problems with analyzing the data and assessing the results. Two multivariate analysis software packages were used for the analyses, PATN (Blatant Fabrications Pty Ltd) (for classification of the data) and PC-ORD (MJM Software Design) for ordination and the production of a two-way table classification of quadrats by species.

In Stage 1, reported here, the quadrat data was analysed by presence/absence for the complete dataset. A separate report is provided for Stage 2, where the Onshore Environmental data is analysed alone.

This report details the methods used to “regularise” the data, the methods of analysis, and gives some preliminary results of the classification and ordination.

The classification was carried out on an “unmodified” dataset of 501 quadrat x 460 taxa and a “modified” dataset of 496 quadrats x 203 taxa. The modified dataset was produced by removing all taxa occurring in ten or less quadrats and five species-poor quadrats.

1. INTRODUCTION

Ekologica has been requested to carry out a multivariate analysis of floristic quadrat data from a Level 2 survey at BHPBIO’s Area C operations area in the Pilbara. The data is in two parts; (1) Historical data from previous surveys in the wider Area C study area, and (2) 2009/2010 data from the a) Packsaddle East (PSE) and b) R-deposit (OR) areas. Summary statistics for the 8 surveys used in the analysis are shown in Table A1.

Table A1. Summary statistics for the survey data used in the analysis.

<table>
<thead>
<tr>
<th>Plot Info</th>
<th>Report</th>
<th>Quatrats</th>
<th>Average</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1 - E35</td>
<td>Ecologia DEF Deposit Survey (2004)</td>
<td>35</td>
<td>27.4</td>
<td>18</td>
<td>36</td>
</tr>
<tr>
<td>R1 - R72</td>
<td>ENV R Deposit (2006)</td>
<td>72</td>
<td>23.7</td>
<td>6</td>
<td>51</td>
</tr>
<tr>
<td>PS1 - PS54</td>
<td>Ecologia - Packsaddle (2004)</td>
<td>54</td>
<td>27.5</td>
<td>15</td>
<td>45</td>
</tr>
<tr>
<td>WEC01-WEC 68</td>
<td>Woodman Environmental - Area C (2009)</td>
<td>62</td>
<td>28.1</td>
<td>11</td>
<td>62</td>
</tr>
<tr>
<td>IP &amp; WY &amp; IPRBTE</td>
<td>ENV - Area C to Jinayri (2010)</td>
<td>57</td>
<td>25.0</td>
<td>4</td>
<td>53</td>
</tr>
<tr>
<td>PSE</td>
<td>Onshore - Packsaddle East (2010)</td>
<td>110</td>
<td>19.9</td>
<td>7</td>
<td>52</td>
</tr>
<tr>
<td>W</td>
<td>Onshore - Area C North West extra sites (2010)</td>
<td>17</td>
<td>23.7</td>
<td>12</td>
<td>37</td>
</tr>
<tr>
<td>OR</td>
<td>Onshore - R-Deposit (2010)</td>
<td>94</td>
<td>21.7</td>
<td>7</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td></td>
<td>501</td>
<td>24.6</td>
<td>4</td>
<td>62</td>
</tr>
</tbody>
</table>
2. OBJECTIVES

Using the three datasheets supplied, viz.; Worksheet 1: 1_Matrix_Historical_300710 (223 plots); 2_Matrix_ENV2010_300710 (57 plots); and Onshore2010_300710 (222 plots), undertake analysis in the following two stages:

- Stage 1: Analyse all data included simply as presence / absence (including all of the Onshore data, i.e. disregard the cover values); and
- Stage 2: Analyse the Onshore data alone. This would involve the data analysed as presence / absence, then re-running the analysis using the cover values - and reporting on the differences, if any.

3. METHODS

The species list for the three datasets (which was identical) was imported into an Access database to check the taxonomic status against the latest update to the Census of Western Australian Plants (CWAP) via Max V3 (DEC 2010c). At the same time a “TaxonCode” of up to ten letters was assigned to each species. In most cases these were the “SpeciesCode” used by the CWAP, however, in the case of taxa with informal names a TaxonCode was assigned to them. For details see “Area_C_Taxon_Link_Table.xlsx”. The TaxonCode was used within the datasets during the multivariate analyses.

3.1. Stage 1: Analyses of the combined dataset

3.1.1. Methods

For these analyses the three datasets were combined to form a matrix of 501 quadrats by 464 taxa, with a total of 11,947 occurrences. One quadrat (OR54) was removed from the analysis because it had no species associated with it (“OR54” was renamed “OR51A” in the original data). Four taxa in the original matrix which had no occurrences within a quadrat were removed from the matrix to produce a 501 quadrat by 460 taxon “unmodified” dataset (see Appendix Data.xlsx).

Two hundred and sixty six taxa (57%) recorded in the combined surveys are “rare”, that is they occur in 10 quadrats or less (i.e. 2% of the 501 quadrats) (Fig. A1). In contrast only 38 taxa (8%) occur in at least a quarter of quadrats. By far the most common species, *Eucalyptus leucophloia* subsp. *leucophloia* occurs in 73% of quadrats. Such uneven distribution of frequencies is generally the case in ecology (Gauch, 1982).

The matrix of combined datasets was regularized prior to analysis, that is species presence and absence was denoted with “1” and “0”. Species cover data within the Onshore data was converted to species presence.
3.1.2. Classification of combined dataset

The combined surveys presence/absence data matrix was subjected to multivariate analysis (Agglomerative Hierarchical Fusion) using the program PATN (Belbin, 2003). The flexible UPGMA classification strategy was used ($\beta = -0.1$), together with the Bray-Curtis site similarity measure. The default number of groups to be determined (23) was accepted. Because of its very large size no ordination was carried out on the full dataset.

3.1.3. Classification and Ordination of modified combined dataset

To reduce the size of the combined dataset so that ordination could be carried out all taxa occurring in fewer than 10 quadrats were deleted. The removal of these left a 501 quadrat x 203 taxon matrix. The classification of the full dataset had revealed two quadrats (Group 23) that had a total of only 7 species, and shared only one. It was decided to remove these quadrats (IP30 and IPR01TE) and also three other species-poor quadrats (R1, IP04, IPR02TE) with < 7 seven species; i.e. less than one third of the overall average. Deleting these quadrats produced a 496 quadrat x 203 taxon matrix which was subjected to ordination using the multivariate statistical software PC-ORD (McCune and Metford, 1999).

Classification of the modified combined dataset (496 quadrats x 203 taxa) was carried out using PATN with the same settings as used on the unmodified combined dataset (Section 3.1.2) including a 23 group output being specified. In addition a two-way quadrat x taxon table was produced using PC-ORD (PATN was not able to do
this) using the same settings for a UPGMA classification as detailed in Section 3.1.2, except no number of groups was specified for the output.

The ordination by PC-ORD used Non-metric multidimensional scaling (NMS) and the Bray-Curtis site similarity measure. Otherwise default settings (“auto-pilot mode”) were used.

3.2 Stage 2: Analyses of the Onshore Environmental dataset

3.2.1 Data Preparation

The species list imported into an Access database to check the taxonomic status against the latest update to the Census of Western Australian Plants (CWAP) via Max V3 (DEC 2010c). At the same time a “TaxonCode” of up to 10 letters was assigned to each species. In most cases these were the “SpeciesCode” used by the CWAP, however, in the case of taxa with informal names a TaxonCode was assigned to them. For details see “Area_C_Taxon_Link_Table.xlsx” in the Appendix data. The TaxonCode was used within the datasets during the multivariate analyses.

The Onshore Environmental dataset comprised a matrix of 272 taxa by 221 quadrats. The statistics for the three surveys that form the dataset are given in Table A2. The number of occurrences of particular taxa within quadrats is shown in Fig. A2. There was a large proportion of species with a low frequency of occurrence – 171 taxa occurred in 10 quadrats or less, 65 taxa occurred in only one quadrat.

Table A2. Summary statistics for the survey data used in the analysis.

<table>
<thead>
<tr>
<th>Plot Info</th>
<th>Report</th>
<th>Quadrats</th>
<th>Average</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSE</td>
<td>Onshore - Packsaddle East (2010)</td>
<td>110</td>
<td>19.9</td>
<td>7</td>
<td>52</td>
</tr>
<tr>
<td>W</td>
<td>Onshore - Area C North West extra sites (2010)</td>
<td>17</td>
<td>23.7</td>
<td>12</td>
<td>37</td>
</tr>
<tr>
<td>OR</td>
<td>Onshore - R-Deposit (2010)</td>
<td>94</td>
<td>21.7</td>
<td>7</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td></td>
<td>221</td>
<td>21.0</td>
<td>7</td>
<td>54</td>
</tr>
</tbody>
</table>
Whereas the mean number of taxa per quadrat was 21 there was a large variation in species richness (α diversity) - with a range from 7 to 54 (Table A3). Most quadrats (65%) had between 16 and 30 taxa (Figure A3).

The data was analysed in two sets, one as presence/absence and one utilising the original data which included an assessment of percentage cover for some taxa within a quadrat. The original dataset was comprised of taxa rated as “present” (marked with an “X”) or as a percent foliage cover ranging from 1% to 90%. For the purposes of the cover/abundance analysis the taxa denoted as present were given a value of “1” (unmodified presence/absence data). For the analysis of presence/absence data all cover percentages were converted to a “1” (unmodified cover/abundance data).
A second set of analyses was carried out on the presence/absence data. To examine the effects of removing “rare” taxa from the presence/absence data all species occurring in less than four quadrats were deleted. “Rare” species may produce noise in the analysis of presence/absence data This left a 154 taxa by 221 quadrat matrix (modified presence/absence data).

An alternative analysis was carried out the cover/abundance data by transforming the percentage cover values to a modified form of the Braun-Blanquet scale (< 5% cover, 1; 5-10%, 2; 11-25%, 3; 26-50%, 4; 51%+, 5. This is a form of “relativisation” which adjusts for an imbalance of species abundance (McCune and Grace, 2002). This data formed the modified cover/abundance dataset.

To summarise, four sets of data were analysed:
- Presence/Absence data (unmodified) - 272 taxa x 221 quadrat matrix;
- Presence/Absence data (modified) - 154 taxa by 221 quadrat matrix (species occurring in < 11 quadrats deleted);
- Cover/Abundance data (unmodified) - 272 taxa x 221 quadrats (original cover/abundance values); and
- Cover/Abundance data (unmodified) - 272 taxa x 221 quadrats (cover values converted to modified Braun-Blanquet scale).

3.2.2 Classification into quadrat groups

The presence/absence and cover/abundance data was subjected to multivariate analysis (Agglomerative Hierarchical Fusion) using the program PATN (Belbin, 2003). The flexible UPGMA classification strategy was used (β = -0.1), together with the Bray-Curtis site similarity measure. The default number of groups to be determined (13, 15 or 17) was accepted. The default number of groups is determined as the square root of the number of rows or columns in the classification (Belbin, 2002).

PC-ORD was used for the Two-Way table classification, with the strategy being the UPGMA linkage method and the Bray-Curtis similarity measure. The clustering of quadrat groups is somewhat different, however, from those produced by PATN because PC-ORD does not allow the number of output groups to be set in the same way as PATN.

3.2.3 Ordination of quadrats

The presence/absence and cover/abundance data was subjected to ordination using the software PC-ORD (McCune and Metford, 1999). The linkage method was Non-metric multidimensional scaling (NMS) and the Bray-Curtis site similarity measure was utilised. Otherwise default settings (“auto-pilot mode”) were used.
4. RESULTS AND DISCUSSION

4.1 Analyses of Combined Dataset

4.1.1 Classification of unmodified combined dataset

The dendrogram produced by the classification of the combined dataset is shown in Figure A4 (by groups only) and in the Appendix Data (by quadrat). The number of quadrats and taxa found in each of the 23 groups is shown in Table A4. As can be seen there are wide variations in the number of quadrats/group and to a lesser degree, the number of taxa in each group. The classification divides the groups into two “super groups”, called Super Group A (Quadrats 1 - 14) and Super Group B (Quadrats 15 - 23).

![Dendrogram](image)

Figure A4. Dendrogram showing the 23 groups produced by the UPGMA classification.

There is some “survey effect” evident in the classification (Table A4). For instance, there are no Onshore Environmental quadrats in vegetation groups 3, 5, 6, 7, 8, 11, 17, 18, 22 or 23.
Table A4. Summary of UPGMA vegetation groups from the unmodified dataset.

<table>
<thead>
<tr>
<th>Super Group</th>
<th>Group</th>
<th>Quadrats</th>
<th>Taxa</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>25</td>
<td>160</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>28</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>21</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>15</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>2</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>7</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>58</td>
<td>210</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>22</td>
<td>84</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>39</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>80</td>
<td>147</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>15</td>
<td>143</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>34</td>
<td>138</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>39</td>
<td>167</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>18</td>
<td>164</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
<td>146</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>16</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17</td>
<td>133</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>10</td>
<td>143</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>5</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>18</td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>6</td>
<td>116</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>8</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>2</td>
<td>7</td>
</tr>
</tbody>
</table>

Table A5. Distribution of vegetation groups by survey (unmodified dataset).

<table>
<thead>
<tr>
<th>Quadrats</th>
<th>Survey</th>
<th>Main Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1 - E35</td>
<td>Ecologia DEF Deposit Survey (2004)</td>
<td>1, 7, 11, 15</td>
</tr>
<tr>
<td>R1 - R72</td>
<td>ENV R Deposit (2006)</td>
<td>3, 8, 11</td>
</tr>
<tr>
<td>PS1 - PS54</td>
<td>Ecologia - Packsaddle (2004)</td>
<td>7</td>
</tr>
<tr>
<td>WEC01-WEC 68</td>
<td>Woodman Environmental - Area C (2009)</td>
<td>3, 4, 5, 8, 17, 18</td>
</tr>
<tr>
<td>IP &amp; WY &amp; IPRBTE</td>
<td>ENV - Area C to Jinayri (2010)</td>
<td>2, 6, 20, 22, 23</td>
</tr>
<tr>
<td>PSE</td>
<td>Onshore - Packsaddle East (2010)</td>
<td>9, 10, 12, 13, 21</td>
</tr>
<tr>
<td>W</td>
<td>Onshore - Area C North West extra sites (2010)</td>
<td>16</td>
</tr>
<tr>
<td>OR</td>
<td>Onshore - R-Deposit (2010)</td>
<td>9, 10, 12, 13, 15, 19</td>
</tr>
</tbody>
</table>
4.1.2 Classification and ordination of modified combined dataset

**Classification of quadrats and species**

Classification of the modified combined dataset (496 quadrats x 203 taxa) produced different groups than the unmodified dataset, as would be expected. Many quadrats were assigned to different groups than they were clustered following the classification of the unmodified dataset, although some groupings were quite resilient. A comparison table for groupings of quadrats from the classification of the unmodified and modified datasets is given in Appendix 4.

Because classification was carried out both for quadrats and species a two-way table was produced (Appendix Data). Note: The groups produced by the PC-ORD classification are not exactly the same as those produced by the PATN classification (even though the classification strategy was the same, i.e. UPGMA with the Bray-Curtis distance measure) because PC-ORD does not provide for “forcing” the classification into a set number of groups.

There are also three distinct “super groups” of taxa visible on the two-way table (Appendix Data) and several other smaller groupings. The “super groups” are summarized in Table A6.

**Table A6.** Major species groups recognised from the two-way table produced by the UPGMA classification.

<table>
<thead>
<tr>
<th>Species Group</th>
<th>Characteristic/Frequent Taxa</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>EREJUCPU, ACAHAM, DODVISMU, SIDSP_SM, PSYLAT, FICBRA, INDFRA, SOLHOR, ASTHAM, CORFERFE, PROALB, TRILEP, ERETIE, ARIBUR</td>
</tr>
<tr>
<td>B</td>
<td>EUPDRUDR, ARIOBS, SPOAUS, SENARTOL, CHRFA, THERI, TRIZEYEZ, PTESP, EUAUP, ACAELA, THESP_MB, TRIEPA</td>
</tr>
<tr>
<td>C</td>
<td>ACATEN, EUCGAM, ACABIV, CORDESDE, SENARTOL, ACAANEAN, ACAMAI, HACCHO, ACAADOAD, EUCLEULE, CORHAM, ACAPRU, ACAPYRPy, SENGLUGL</td>
</tr>
</tbody>
</table>

Species from Group C are more frequent than those from Groups A and B. Species from Group A, such as ASTHAM, FICBRA, CORFERFE, DODVISMU, SIDSP_SH are ACAHAM important in separating groups with a high proportion of quadrats from the Onshore - Packsaddle East (PSE) and Onshore - R-Deposit (OR) surveys from other groups.

There is distinct clustering of Onshore quadrats visible in the two-way table. For instance at the bottom of the two-way table it can be seen that the quadrats from Onshore - Area C North West extra sites (W) and Onshore - R-Deposit (OR) (Group 17) are distinguished from a tightly clustered subgroup of quadrats from the Woodman Environmental - Area C (WEC) survey (Group 18) by a much greater prevalence of taxa from Species subgroup C1 in quadrats from the latter survey.
4.1.3 Ordination of quadrats

The ordination graphs are somewhat difficult to read because of the large number of quadrats, however several conclusions can be drawn.

- Vegetation Group 17 (equivalent to Group 16 of the unmodified dataset) of the modified dataset classification, which is mainly comprised of Onshore - Area C North West extra sites (W) and Onshore - R-Deposit (OR) has high Axis 1 and high Axis 2 scores and forms a distinct cluster of quadrats in the upper right hand corner of that graph;

- Group 15 (equivalent to Group 13 of the unmodified dataset) of the modified dataset classification, which is mainly comprised of Onshore - Packsaddle East (PSE) and OR quadrats has high Axis 3 scores and medium Axis 1 scores;

- Quadrats from Group 18 (Unmodified dataset Group 17), all from Woodman Environmental - Area C, have high scores on Axis 2 and low scores on Axis 3; and

- Quadrats from Group 11 of the modified dataset have high scores on Axis 1.

A table showing the scores on each of the three axes for each quadrat as well as the group that quadrat was placed in is included in the Appendix Data.

4.2 Analyses of Combined Dataset

4.2.1 Classification of unmodified combined dataset

The UPGMA classification produced 15 quadrat groups (see Appendix Data), ranging in size from 2 quadrats (Group 6) to 41 quadrats in size (Group 7). Two “super groups” of quadrats were form at the first division level formed by Groups 1 - 10 (Super Group A) and 11 to 15 (Super Group B). There was some association with individual surveys, for instance quadrats from the Onshore - Area C North West extra sites (2010) survey were all placed in Groups 12, 14 and 15 of Super Group B. Correspondingly, all but three of the quadrats from the Onshore - Packsaddle East (2010) survey were placed in Super Group A.

Examination of the Two-Way Table shows that three major groups of taxa are recognizable (numbered I, II and II), as well as a number of smaller groups of less common species. Species Group II is divided into two sub-groups (IIa, IIb). The composition of the major species groups is summarized in Table A7.

Table A7. Characteristic taxa of the main species groups from the presence/absence Two-Way Table.

<table>
<thead>
<tr>
<th>Species Group</th>
<th>Characteristic Taxa</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>ACAANEAN, ARICON, ERELOM, ARIINA, DIGAMM, CLEVIS, ENNPOL, HAKLORLO, DIGBRO, SIDFIB, EUCKER, ACAPAC</td>
</tr>
<tr>
<td>II (IIa)</td>
<td>ABUDIO, DODVISMU, INDFRA, CORFERFE, FICBRA, EREJUCPU, SIDSP_SH, SIDSP_GC, SENVEN, NEWSP_HR</td>
</tr>
<tr>
<td>II (IIb)</td>
<td>ACATUMPI, RULLUT, HYBAUR, DODLANLA, ATAHEM</td>
</tr>
</tbody>
</table>
Area C and Surrounds Study Area  
Level 2 Flora & Vegetation Survey

| III | ACADOAD, GOMKAR, CORHAM, EUCLEULE, ACAHIL, TRISP_SH, HAKCHO, AMPSER, GOOSTO, CORLASPA, GREVICHI, ACAHAM, CYMAMB, ERIMUC, TRIPUN, ACAMON, DAMCAN, ACAPRU, TRIWIS |

Some general observations can be made from the Two-Way table:

- Taxa from Group III are represented in most quadrat groups, although they are not as frequent in quadrats in Super Group B as they are in Super Group A. *Triodia pungens* (TRIPUN), *Corymbia hammersleyana* (CORHAM), *Triodia wiseana* (TRIWIS) and *Eucalyptus leucophloia* subsp. *leucophloia* (EUCLEULEU) are present in most quadrat groups, although they are much less frequent in quadrats from Super Group B;
- Quadrat Groups 14 and 15 comprised of quadrats from the Onshore - Area C North West extra sites (2010) survey are distinguished from the other groups by the frequent presence of taxa from Species Group I;
- Quadrat Group 8 (Onshore - Packsaddle East and Onshore - R-Deposit surveys) is distinguished by frequent occurrence of taxa from Species Group IIb and also a sub-group of Group III which includes *Acacia hammersleyana*, *Cymbopogon ambiguus*, *Eriachne mucronata*, *Triodia pungens*, *Gossypium robinsonii*, *Petalostylis labicheoides* and *Santalum lanceolatum*;
- Quadrat Group 9 (Onshore - Packsaddle East and Onshore - R-Deposit surveys) has a high frequency of taxa from Species Group IIa; and
- A subgroup of taxa from Species Group III (including *Paraneurachne muelleri*, *Solanum lasiophyllum*, *Acacia bivenosa* and *Corymbia deserticola* subsp. *deserticola*) is frequent in Quadrat Groups 11 and 12.

4.2.2 Ordination of presence/absence data (unmodified data)

Graphs displaying scores on the first three axes of the NMS ordination are in the Appendix Data. General conclusions that can be drawn from the ordination are:

- Outlier analysis (McCune and Metford, 1999) following the ordination showed that 13 quadrats had values for the Bray-Curtis similarity measure than were more than two standard deviations from the mean, these were PSE92, OR47, W1, OR32, W14, W15, W2, OR35, W6, PSE84, W17, W16, and W13. “Outliers” (in this case with an unusual combination of taxa) can have a large effect on the outcomes of multivariate analysis;
- Quadrat Groups 14 and particularly 15 have a high proportion of outliers (Deleting these quadrats before reanalyzing the data);
- Quadrat Groups 1, 2, 3 and 9 tend to have low (negative) values on Axis 1;
- Quadrat Groups 8, 11 and 12 tend to have high (positive) values on Axis 1;
- Quadrat Groups 8, 9, 10, 11, 13, 14 and 15 have moderately high to high (positive) values on Axis 2;
- Quadrat Groups 1 and 2 have low (negative) values on Axis 2;
- Quadrat Groups 10, 11, 12, 13, 14 and 15 have high (positive) values on Axis 3; and
- Quadrat Groups 1, 4, 5 and 7 have low (negative) values on Axis 3.

4.2.3 Classification of presence/absence data (modified data)

Classification of the modified presence/absence data (with “rare” taxa removed) produced 13 groups compared to the 15 with the unmodified data. The group
dendrogram, quadrat dendrogram and two way table for this analysis are provided in the Appendix Data. Some comments that can be made with regard to the classification of the modified data compared to the unmodified data are:

- Groups 14 and 15 from the unmodified data classification are united into one group (Group 13);
- Groups 3, 7, 8, 9, 11, 12 and 13 remain virtually unchanged (that is their grouping following analysis of the modified data is similar to that of the unmodified data);
- Groups 1, 2, 4, 5 and 6 are re-assigned to different groups following analysis of the modified dataset;
- It could be conjectured that Groups 1, 2, 4, 5 and 6 (of the unmodified dataset) had a higher proportion of “rare” species - this has not been checked; and
- The Two Way Table for the modified data shows a similar clustering of taxa to that of the unmodified data, however the two sub-groups of Species Group II, IIa and IIb are separated following classification of the modified data, with Species Group IIa sharing a branch of the dendrogram with Species Group III and Species Group I and sub-group IIb forming two clusters of a larger group.

4.2.4 Classification of cover/abundance data (unmodified data)

Group and quadrat dendograms and quadrat ordination diagrams for the “raw” cover/abundance data are given in the Appendix Data. The quadrats were clustered into 15 groups ranging in size from 2 to 42 quadrats. Some observations are:

- Quadrats W16 and W17 (which form group 15) are “anomalous” in that they branch off at a very early stage of the clustering. As noted in Section 4.2 these quadrats were among a group of “outliers” identified following ordination of the unmodified presence/absence data,
- Classification of the cover/abundance data has placed some quadrats in quite different groupings than they were in following classification of the unmodified presence/absence data, e.g.;
  - Group 1 of the cover/abundance data classification includes quadrats from groups 1, 3, 4, 5, 7, 8 and 9 of the presence/absence classification,
  - A Two Way table produced following clustering of quadrats and taxa (available if required) shows that species groups tend to form around taxa with high frequency and high cover value,
  - Some taxa, Acacia pruinocarpa, for instance, which lies with Species Group III of the presence/absence classification, unaccountably is consigned to a completely new group following two-way classification of the cover/abundance data,
  - While there is some correspondence between cover/abundance quadrat groups and the “super groups” of presence/absence quadrats (A and B, see Section 4.1) there are some cover/abundance groups that include quadrats from both Super Groups A and B.
4.2.5 Ordination of the unmodified cover/abundance data

The ordination diagrams are provided in the Appendix Data. The ordination produced dense clustering of most quadrats with several significant “outliers”. A fuller discussion of ordination of the cover/abundance data is given below (Section 4.7).

4.2.6 Classification of cover/abundance data (modified data)

Dendrograms for the groups and quadrats as well as ordination diagrams for the modified cover/abundance data are provided in the Appendix Data. The original cover/abundance data was transformed to form the “modified” cover/abundance data by using a modified Braun-Blanquet scale to represent cover within certain ranges of values (see Section 3.1). Transformations of “raw” data can benefit the analysis in several ways (McCune and Metford, 1999), including:

- improving assumptions of normality, linearity, homogeneity of variance;
- make similarity measures work better;
- reduce the effect of total quantity (sample unit totals);
- equalize, or otherwise alter, the relative importance of common and rare species; and
- emphasise informative species at the expense of uninformative species.

Classification of the modified cover/abundance data produced 15 groups ranging in size from one quadrat to 54 quadrats. There were two other groups consisting of only two quadrats. Comparing the quadrat groupings to those produced by classification of the presence/absence data, the following comments can be made:

- Transformation of the cover/abundance data produces quadrat groups closer to those produced by the presence/absence data than does classification of the “raw” cover/abundance data;
- As a corollary of this quadrat groups from analysis of the modified cover/abundance data generally include quadrats from several groups of the unmodified data classification; and
- As with the unmodified cover data the modified cover/abundance data groups include quadrats from both presence/absence Super Groups A and B (Section 4.1).

4.2.7 Ordination of the modified cover/abundance data

Ordination diagrams for the modified cover/abundance data are provided in the Appendix Data. Observations are provided below with regard to axis scores and groups produced by classification of the modified cover/abundance data.

- The “spread” of quadrats is more even, with less obvious “outliers” in the ordination diagrams for this analysis compared to those for the ordination of the unmodified data.
- Quadrats within Groups 10, 11, 13 and 14 have relatively high values for Axis one,
- Groups 3, 5 and 6 have relatively low (negative) values on Axis 1,
- Groups 1, 4 and 5 have relatively high (positive) values on Axis 2,
- Groups 11, 12, 14 and 15 have low values on Axis 2,
- Groups 1, 8 and 12 have high values on Axis 3,
- Groups 2, 4, 5 and 6 have relatively low values on Axis 3.
5. CONCLUSION

Multivariate analysis of the four datasets produced quite different grouping of quadrats, in particular there was a large difference between the clusters produced by the presence/absence compared to the cover/abundance classifications. Deleting “rare” taxa from the presence/absence dataset probably improved the stability of the resulting groups, and may help clarify the relationship between quadrat groups and environmental factors.

Using the untransformed cover/abundance data caused a large change in the distribution of quadrats by groups. Quadrats that were in different groups in the presence/absence clustering were often “lumped” together by the cover/abundance classification. Transforming the cover values to scores from a modified Braun-Blanquet scale reduced this effect.

Further analysis of the presence/absence data may be improved by removing “outlier” quadrats and quadrats where there are fewer than 25% of the mean number of species per quadrat for the complete dataset.
**APPENDIX 7a**  Previous conservation significant flora records for the Area C and Surrounds Study area.

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<th>Species</th>
<th>Cons. Code</th>
<th>GDA94 (Easting)</th>
<th>GDA94 (Northing)</th>
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<th>No. Plant or % Cover</th>
<th>Status</th>
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APPENDIX 7b  New conservation significant flora records for the Area C and Surrounds Study area, recorded by Onshore Environmental between November 2009 and June 2010.

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APPENDIX 8a  Previous records for introduced (weed) species recorded from the Area C and Surrounds Study area.

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**APPENDIX 8b** Records of introduced (weed) species recorded from the Area C and Surrounds Study area by Onshore Environmental, November 2009 - June 2010.

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APPENDIX 11

Site sheets summarising raw data for the 110 quadrats assessed within the Northern Survey Area; assessed by Onshore Environmental November 2009, February 2010 & June 2010.
### Site PSE 1

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- **Habitat**: Steep hill slope - upper to mid slope, with small ironstone breakaways
- **Aspect**: North
- **Soil**: Skeletal, red/brown loam
- **Rock Type**: Ironstone - BIF & Black ironstone - outcrops/ cobbles and pebbles
- **% Bare Ground**: 20
- **% Logs:Twigs:Leaves**: 0:<1:0.5
- **Vegetation Condition**: Excellent
- **Disturbance Type**: None evident
- **Fire Age**: Old

#### Vegetation

Hummock Grassland of *Triodia pungens*, *Triodia wiseana* with Low Open Woodland of *Corymbia hamersleyana*, *Eucalyptus leucophloia subsp. leucophloia* over High Open Shrubland of *Acacia pruinocarpa*

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Hummock Grassland of Triodia wiseana with Open Mallee of Eucalyptus kingsmillii subsp. kingsmillii with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Mirbelia viminalis

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<td>0.5-2</td>
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<td>0.5-1.2</td>
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<td>0.5-1</td>
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<td>Open Scrub of Petalostylis labicheoides, Acacia monticola, Grevillea wickhamii subsp. hispidula over Hummock Grassland of Triodia wiseana with Low Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Halgania gustafsenii, Acacia monticola, Grevillea wickhamii subsp. hispidula</td>
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<td>Gossypium robinsonii</td>
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### Site PSE 5

**Date**: 10/02/2010  
**Recorder**: MOC  
**Photo**: 24  
**Shape/Size**: 50m X 50m  
**Datum**: GDA94  
**Zone**: 50K  
**Easting**: 703579  
**Northing**: 7465555  
**Habitat**: Rocky hill slope/valley  
**Aspect**: South East  
**Soil**: Skeletal, clay loam  
**Rock Type**: Ironstone, plenty of rocky outcropping  
**% Bare Ground**: 15  
**% Logs:Twigs:Leaves**: 0.5:0.5:0  
**Vegetation Condition**: Excellent  
**Disturbance Type**: Drill track 100m away  
**Fire Age**: Old

Hummock Grassland of *Triodia wiseana* with Low Woodland of *Eucalyptus leucopehoia subsp. leucopehoia*, *Corymbia hamersleyana*, *Corymbia ferriticola* over Scattered Shrub of *Acacia hamersleyensis*, *Santalum lanceolatum*

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Hummock Grassland of Triodia wiseana with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Open Shrubland of Acacia hilliana, Acacia adoxa var. adoxa, Halgania gustafsenii

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<td>Halgania gustafsenii</td>
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Hummock Grassland of Triodia wiseana with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over High Shrubland of Grevillea wickhamii subsp. hispidula, Petalostylis labicheoides, Santalum lanceolatum

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Open Hummock Grassland of Triodia wiseana, Triodia pungens with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Very Open Mallee of Eucalyptus kingsmillii subsp. kingsmillii over Open Shrubland of Petalostylis labicheoides

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Area C and Surrounds Study Area  
Level 2 Flora & Vegetation Survey

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</tr>
<tr>
<td>Northing</td>
<td>7466592</td>
</tr>
<tr>
<td>Habitat</td>
<td>Small gorge/cliff lined valley N/S orientated valley</td>
</tr>
<tr>
<td>Aspect</td>
<td>N/A</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone/Cherts/BIF - cliffs, outcrops &amp; boulders</td>
</tr>
<tr>
<td>% Bare Ground</td>
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</tr>
<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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</tr>
<tr>
<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
<td>Moderate</td>
</tr>
<tr>
<td>Vegetation</td>
<td>Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana, Corymbia ferriticola over High Shrubland of Petalostylis labicheoides, Gossypium robinsonii, Acacia pyrifolia over Open Tussock Grassland of Themeda triandra, Cymbopogon ambiguus over Open Hummock Grassland of Triodia pungens</td>
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<th>Species</th>
<th>% Cover</th>
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<td>Themeda triandra</td>
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<tr>
<td>Indigofera fractiflexa Peter G.Wilson &amp; Rowe ms</td>
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<td>&lt;0.4</td>
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<tr>
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<td>Senna venusta</td>
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<td>Acacia pyrifolia</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site: PSE 11
Date: 10/02/2010
Recorder: MOC
Photo: 26
Shape/Size: 50m X 50m
Datum: GDA94
Zone: 50K
Easting: 708309
Northing: 7467275
Habitat: Hill top
Aspect: South
Soil: Skeletal - clay loam
Rock Type: Ironstone
% Bare Ground: 25
% Logs: Twigs: Leaves: 00:05.5
Vegetation Condition: Excellent
Disturbance Type: None evident
Fire Age: Moderate/old

Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Very Open Mallee of Eucalyptus gamophylla, Eucalyptus kingsmillii subsp. kingsmillii

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<td>0.3</td>
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</tr>
<tr>
<td>Hakea chordophylla</td>
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<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Acacia hamersleyensis</td>
<td>&lt;1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.3</td>
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<td>Cassytha capillaris</td>
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<td>Cymbopogon ambiguus</td>
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### Site Details

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<td>Aspect</td>
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<tr>
<td>Soil</td>
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</tr>
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<tr>
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### Vegetation

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<td>Eucalyptus gamophylla</td>
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<tr>
<td>Petalostylis labicheoides</td>
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<td>2-4</td>
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<tr>
<td>Triodia wiseana</td>
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<td>0.6</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>0.5-1</td>
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</tr>
<tr>
<td>Dodonaea pachyneura</td>
<td>1</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>Acacia pyrifolia</td>
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<td>1-2</td>
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</tr>
<tr>
<td>Triodia pungens</td>
<td>15</td>
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<td></td>
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<tr>
<td>Eriachne lanata</td>
<td>&lt;1</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Jasminum didymum subsp. lineare</td>
<td>&lt;1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Acacia pruinocarpa</td>
<td>&lt;1</td>
<td>1-2</td>
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<tr>
<td>Goodenia triodiaphila</td>
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<td>0.2</td>
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<tr>
<td>Senna glutinosa subsp. x luerssenii</td>
<td>&lt;1</td>
<td>1.5</td>
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<tr>
<td>Sida sp. Golden calyces glabrous (H.N. Foote 32),</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>1-2</td>
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### Site Information
- **Site**: PSE 13
- **Date**: 10/02/2010
- **Recorder**: JB
- **Photo**: 7259
- **Shape/Size**: 50m X 50m
- **Datum**: GDA94
- **Zone**: 50K
- **Easting**: 708538
- **Northing**: 7466842
- **Habitat**: hill slope - moderate
- **Aspect**: North
- **Soil**: Skeletal red/brown loam
- **Rock Type**: Ironstone - outcrops, cobbles and pebbles
- **% Bare Ground**: 30%
- **% Logs: Twigs: Leaves**: 0:01:01
- **Vegetation Condition**: Excellent
- **Disturbance Type**: Drill lines 200m to east
- **Fire Age**: Old

### Vegetation
Hummock Grassland of Triodia pungens, Triodia wiseana with Low Shrubland of Acacia arida with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia

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<td>Corymbia hamersleyana</td>
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<td>Senna glutinosa subsp. glutinosa</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Eriachne lanata</td>
<td>&lt;1</td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<td>Petalostylis labicheoides</td>
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<td>Scaevola browniana subsp. browniana</td>
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<td>Acacia monticola</td>
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<td>Solanum lasiophyllum</td>
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<td>Cucumis maderaspatanus</td>
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<td>Clerodendrum floribundum var. angustifolium (juv)</td>
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OPP COLL
Cassytha capillaris

CBJ013
Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site PSE 14

Date 10/02/2010
Recorder MOC
Photo 7260
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 709221
Northing 7466363
Habitat Slope - in a valley
Aspect North/ North west
Soil Skeletal - clay loam
Rock Type Ironstone
% Bare Ground 35
% Logs:Twigs:Leaves 1.5:1:3
Vegetation Condition Excellent
Disturbance Type Track nearby
Fire Age Old

Hummock Grassland of Triodia pungens, Triodia wiseana with Low Open Woodland of Eucalyptus leptophloia subsp. leptophloia over High Open Shrubland of Acacia pruinocarpa, Ficus brachypoda over Scattered Shrubs or Acacia aneura, Acacia hamersleyensis

<table>
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<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<td>Ficus brachypoda</td>
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<td>Jasminum didymum subsp. lineare</td>
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**Vegetation**

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**Vegetation**

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**Recorder** | MOC
**Photo** | 0030-0031
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 711116
**Northing** | 7466258
**Habitat** | Lower slope
**Aspect** | North
**Soil** | Red/brown
**Rock Type** | Ironstone
**% Bare Ground** | 60
**% Logs:Twigs:Leaves** | 0:02:02
**Vegetation Condition** | Good
**Disturbance Type** | Tracks everywhere
**Fire Age** | Old

**Vegetation**

Shrubland of *Acacia arida* over Hummock Grassland of *Triodia wiseana* with Low Open Woodland of *Eucalyptus leucophloia subsp. leucophloia*

**PSE - Site 18**

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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

347
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<td>Triodia pungens</td>
<td>25</td>
<td>0.5-1</td>
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<tr>
<td>Mirbelia viminalis</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>4</td>
<td>0.4-0.8</td>
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</tr>
<tr>
<td>Senna glutinosa subsp. glutinosa</td>
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<tr>
<td>Eriachne mucronata</td>
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<td>&lt;0.4</td>
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<tr>
<td>Acacia hamersleyensis</td>
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<tr>
<td>Dodonaea lanceolata var. lanceolata</td>
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<tr>
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<td>0.5-1.5</td>
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<tr>
<td>Rulingia luteiflora</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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Site | PSE 20
--- | ---
Date | 11/02/2010
Recorder | JB
Photo | 7272, 7273, 7274
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 710344
Northing | 7465500
Habitat | Stony plain - gentle slope
Aspect | South west
Soil | Red/brown - silty loam
Rock Type | cherts - cobbles and pebbles
% Bare Ground | -
% Logs:Twigs:Leaves | 0.5:3:4
Vegetation Condition | Excellent
Disturbance Type | None evident
Fire Age | Moderate & Old - patchy

Vegetation

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acacia elachantha</td>
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<tr>
<td>Acacia aneura var. tenuis</td>
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<td>2-5</td>
<td>CBJ20.01</td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>5</td>
<td>4-6.5</td>
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<tr>
<td>Triodia pungens</td>
<td>55</td>
<td>0.5-1.3</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>0.4-0.8</td>
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<tr>
<td>Acacia tenuissima</td>
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<td>Santalum lanceolatum</td>
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<tr>
<td>Cassytha capillaris</td>
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<td>Cl</td>
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<td>Hakea chordophylla</td>
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<td>Aristida contorta</td>
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<td>Range</td>
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<td>Petalostylis labicheoides</td>
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<td>Eucalyptus gamophylla</td>
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<td>Easting</td>
<td>711398</td>
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<td>Northing</td>
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<tr>
<td>Habitat</td>
<td>Hill spur - crest and slopes</td>
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<tr>
<td>Aspect</td>
<td>North</td>
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<tr>
<td>Soil</td>
<td>Skeletal - brown loam</td>
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<tr>
<td>Rock Type</td>
<td>Cherts, quartz and shales (light coloured) - pebbles, occasional outcrop (also some ironstone)</td>
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<tr>
<td>% Bare Ground</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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<td></td>
<td></td>
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<tr>
<td>Disturbance Type</td>
<td>Old track through area and access track 50m to North</td>
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<tr>
<td>Fire Age</td>
<td>Old</td>
<td></td>
<td></td>
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<tr>
<td>Vegetation</td>
<td>Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Open Shrubland of Acacia bivenosa</td>
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<tr>
<th>Species</th>
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<th>Height</th>
<th>No.</th>
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<tbody>
<tr>
<td>Triodia wiseana</td>
<td>40</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>0.7</td>
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<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>8</td>
<td>4-8</td>
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<tr>
<td>Acacia bivenosa</td>
<td>5</td>
<td>1-2.5</td>
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<tr>
<td>Acacia aneura</td>
<td>0.5</td>
<td>1-1.5</td>
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</tr>
<tr>
<td>Senna glutinosa subsp. glutinosa</td>
<td>&lt;1</td>
<td>1-1.5</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Ptilotus obovatus var. obovatus</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Dodonana coriacea</td>
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<td>0.6</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
<td>3</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Acacia pruinocarpa</td>
<td>&lt;1</td>
<td>0.5-1</td>
<td></td>
</tr>
<tr>
<td>Triodia pungens</td>
<td>7</td>
<td>0.5-1</td>
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<tr>
<td>Eremophila latrobei subsp. latrobei</td>
<td>&lt;1</td>
<td>1</td>
<td></td>
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<tr>
<td>Cymbopogon ambiguus</td>
<td>&lt;1</td>
<td>0.5-1</td>
<td></td>
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<tr>
<td>Fimbristylis dichotoma</td>
<td>&lt;1</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
<td>&lt;1</td>
<td>3</td>
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### Site Information

<table>
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<tr>
<th>Site</th>
<th>PSE 22</th>
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<tbody>
<tr>
<td>Date</td>
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<tr>
<td>Recorder</td>
<td>JB</td>
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<td>Photo</td>
<td>7277</td>
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<td>Shape/Size</td>
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<td>Datum</td>
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<tr>
<td>Zone</td>
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<td>Easting</td>
<td>711897</td>
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<tr>
<td>Northing</td>
<td>7466450</td>
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<tr>
<td>Habitat</td>
<td>Drainage valley/drainage line - incised drainage channel approx 10m wide</td>
</tr>
<tr>
<td>Aspect</td>
<td>North</td>
</tr>
<tr>
<td>Soil</td>
<td>Red/brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - cobbles and pebbles - mixed ironstone, gravel in channel</td>
</tr>
<tr>
<td>% Bare Ground</td>
<td>5</td>
</tr>
<tr>
<td>% Logs:Twigs:Leaves</td>
<td>4:5:25</td>
</tr>
<tr>
<td>Vegetation Condition</td>
<td>Very good</td>
</tr>
<tr>
<td>Disturbance Type</td>
<td>Access tracks and powerline - tracks thru area</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Very old</td>
</tr>
</tbody>
</table>

### Vegetation

- **Species**
  - **Triodia pungens**: 15% cover, height 0.5-1.5
  - **Triodia wiseana**: 5% cover, height 0.5-1.5, CBJ45.01
  - **Petalostylis labicheoides**: 10% cover, height 2-4
  - **Acacia tumida var. pilbarensis**: 60% cover, height 2-4
  - **Corymbia hamersleyana**: 8% cover, height 4-10
  - **Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)**: <1% cover, height <0.6
  - **Acacia adoxa var. adoxa**: 0.5% cover, height <0.5-1
  - **Amphipogon sericeus**: <1% cover, height 0.4
  - **Solanum lasiophyllum**: <1% cover, height <0.8
  - **Duperreya commixta**: 1% cover, height Cl
  - **Eucalyptus gamophylla**: 2.5% cover, height 3-4
  - **Dodonaea lanceolata var. lanceolata**: 2% cover, height 2-3, CBJ19.01
  - **Gossypium robinsonii**: 5% cover, height 2-4
  - **Themeda triandra**: 6% cover, height 0.5-1
  - **Acacia monticola**: 2% cover, height 2-3
  - **Acacia arida**: <1% cover, height 0.5-1
  - **Acacia maitlandii**: 3% cover, height 1-2.5
  - **Rulingia luteiflora**: 2% cover, height 1-2.5
<table>
<thead>
<tr>
<th>Species</th>
<th>Density</th>
<th>Size</th>
<th>Code</th>
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<tbody>
<tr>
<td>Cymbopogon ambiguus</td>
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<td>1-1.3</td>
<td>CBJ22.01</td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
<td>1</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>Eriachne lanata</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
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<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.4</td>
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</tr>
<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
<td>&lt;1</td>
<td>0.5</td>
<td>CBJ22.02</td>
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<tr>
<td>Hybanthus aurantiacus</td>
<td>&lt;1</td>
<td>0.6-1</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<td>Zone</td>
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<td>Easting</td>
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<td>Northing</td>
<td>7466268</td>
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<tr>
<td>Habitat</td>
<td>Middle/lower hill slope</td>
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<td>Aspect</td>
<td>North</td>
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<tr>
<td>Soil</td>
<td>Red/brown sandy loam</td>
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<td>Rock Type</td>
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<tr>
<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Disturbance Type</td>
<td>Exploration tracks/ Powerline corridor</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Old</td>
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Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over High Open Shrubland of Grevillea wickhamii subsp. hispidula over Low Open Shrubland of Acacia hilliana

### Vegetation

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<tr>
<td>Acacia monticola</td>
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<td>1-2</td>
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<tr>
<td>Acacia pruinocarpa</td>
<td>2</td>
<td>1-2</td>
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<tr>
<td>Hakea chordophylla</td>
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<td>&gt;2</td>
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<td>0.5-1</td>
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<tr>
<td>Petalostylis labicheoides</td>
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<td>1-1.5</td>
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<td>0.5</td>
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<td>Acacia adoxa var. adoxa</td>
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<td>0.6</td>
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<tr>
<td>Corymbia hammersleyana</td>
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<td>3-5</td>
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<td>Duperreya commixta</td>
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<td>Cl</td>
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<td>Ptilotus calostachyus</td>
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### Study Area:
Area C and Surrounds Study Area

### Level 2 Flora & Vegetation Survey

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<td>Aspect</td>
<td>South</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown</td>
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<td>Rock Type</td>
<td>Ironstone</td>
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<td>Fire Age</td>
<td>Old</td>
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**Vegetation**

- Low Woodland of *Eucalyptus leucophloia* subsp. *leucophloia* over Open Hummock Grassland of *Triodia* sp. *Shovelanna Hill (S. van Leeuwen 3835)*

<table>
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<th>% Cover</th>
<th>Height</th>
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<tr>
<td><em>Eucalyptus leucophloia</em> subsp. <em>leucophloia</em></td>
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<td><em>Capparis lasiantha</em></td>
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<tr>
<td><em>Senna glutinosa</em> subsp. <em>glutinosa</em></td>
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</tr>
<tr>
<td><em>Cymbopogon ambiguus</em></td>
<td>1</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td><em>Sida sp.</em> Golden calyces glabrous (H.N. Foote 32),</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td><em>Lepidium pedicellosum</em></td>
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<td>0.5</td>
<td>CBM24.04</td>
</tr>
<tr>
<td><em>Acacia bivenosa</em></td>
<td>0.5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><em>Triodia</em> sp. <em>Shovelanna Hill (S. van Leeuwen 3835)</em></td>
<td>30</td>
<td>0.5-1</td>
<td></td>
</tr>
<tr>
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<tr>
<td><em>Duperreya commixa</em></td>
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<td>Cl</td>
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<tr>
<td><em>Triodia pungens</em></td>
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<tr>
<td><em>Ptilotus obovatus var. obovatus</em></td>
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<tr>
<td><em>Themeda triandra</em></td>
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<tr>
<td><em>Eriachne mucronata</em></td>
<td>&lt;1</td>
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<td>CBM24.01</td>
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<tr>
<td><em>Abutilon dioicum R.M.Barker ms</em></td>
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## Site Details

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<td>Northing</td>
<td>7466503</td>
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<tr>
<td>Habitat</td>
<td>Lower slope - adjacent drainage line</td>
</tr>
<tr>
<td>Aspect</td>
<td>South</td>
</tr>
<tr>
<td>Soil</td>
<td>Red/brown sandy loam - ironstone gravelly scree</td>
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<tr>
<td>Rock Type</td>
<td>Ironstone</td>
</tr>
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<td>% Bare Ground</td>
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</tr>
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<td>Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Acacia pruinocarpa over Scatterred Tall Shrubs of Grevillea wickhamii subsp. hispidula</td>
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## Vegetation

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<td>Acacia sibirica</td>
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<td>Grevillea wickhamii subsp. hispidula</td>
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<td>Triodia wiseana</td>
<td>45-55</td>
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<td>Senna ferraria</td>
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<td>Acacia dictyophleba</td>
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<tr>
<td>Eriachne mucronata</td>
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<td>0.2</td>
<td></td>
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<tr>
<td>Corymbia hamersleyana</td>
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<td>2-5</td>
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<td>Acacia ancistrocarpa</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<td>0.5-1</td>
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<td>Habitat</td>
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<tr>
<td>Soil</td>
<td>Rd/brown loam</td>
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<tr>
<td>Rock Type</td>
<td>Ironstone/cherts - cobbles/pebbles and drainage line gravel</td>
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<tr>
<td>% Bare Ground</td>
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<td>Fire Age</td>
<td>Old</td>
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<td></td>
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<tr>
<td>Vegetation</td>
<td>Closed Scrub of Acacia tumida var. pilbarensis, Petalostylis labicheoides, Dodonaea lanceolata var. lanceolata with Low Woodland of Corymbia hamersleyana over Open Hummock Grassland of Triodia pungens</td>
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<td>Corymbia hamersleyana</td>
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<td>5-11</td>
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<td>Petalostylis labicheoides</td>
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<td>3</td>
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<td>Amphipogon sericeus</td>
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<tr>
<td>Duperreya commixta</td>
<td>&lt;1</td>
<td>Cl</td>
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</tr>
<tr>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<td>Habitat</td>
<td>Low hill spurs/slopes/plains - gentle</td>
</tr>
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<td>Aspect</td>
<td>North</td>
</tr>
<tr>
<td>Soil</td>
<td>Red/brown loam (dusty)</td>
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<td>Rock Type</td>
<td>chert/ironstone - pebbles</td>
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<td>Hummock Grassland of <em>Triodia</em> sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of <em>Corymbia deserticola</em> subsp. deserticola over Low Open Shrubland of <em>Acacia</em> hilliana, <em>Acacia</em> tenuissima</td>
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<td>0.5-1</td>
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<td><em>Acacia tenuissima</em></td>
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<td><em>Hakea chordophylla</em></td>
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<td>1-2</td>
<td></td>
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<td><em>Acacia elachantha</em></td>
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<td>0.5-1</td>
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<td>Cl</td>
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<tr>
<td><em>Acacia adoxa</em> var. <em>adoxa</em></td>
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<td>0.5-1</td>
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<td><em>Goodenia stobbsiana</em></td>
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<td>0.5</td>
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<tr>
<td>OPP COLL</td>
<td>Acacia tumida var. pilbarensis</td>
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<td>Ptilotus calostachyus</td>
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### Site PSE 28

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<td>Footslopes - spur slopes</td>
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<td>Aspect</td>
<td>North</td>
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<tr>
<td>Soil</td>
<td>Brown/red sandy loam - stony scree</td>
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<td>Fire Age</td>
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Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia deserticola subsp. deserticola over Low Open Shrubland of Acacia hilliana, Acacia adoxa var. adoxa

#### Vegetation

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<td>2-6</td>
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<td>2-5</td>
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<tr>
<td>Hakea chordophylla</td>
<td>0.5</td>
<td>2-4</td>
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</tr>
<tr>
<td>Senna ferraria</td>
<td>&lt;1</td>
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<td></td>
</tr>
<tr>
<td>Acacia adoxa var. adoxa</td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Acacia pruinocarpa</td>
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<td>1.5</td>
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<tr>
<td>Acacia monticola</td>
<td>&lt;1</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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Site: PSE 29
Date: 11/02/2010
Recorder: MOC
Photo: 33
Shape/Size: 50m X 50m
Datum: GDA94
Zone: 50K
Easting: 711289
Northing: 7467335
Habitat: Drainage line off hills
Aspect: North
Soil: Skeletal, brown
Rock Type: Ironstone - crumbly
% Bare Ground: 20
% Logs: Twigs: Leaves: 5:10:05
Vegetation Condition: Excellent
Disturbance Type: None evident
Fire Age: Old

Vegetation:

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<tr>
<td>Acacia pyrifolia</td>
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<tr>
<td>Ficus brachypoda</td>
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<td>Indigofera monophylla</td>
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</tr>
<tr>
<td>Duperreya commixta</td>
<td>&lt;1</td>
<td>Cl</td>
<td></td>
</tr>
<tr>
<td>Acacia tumida var. pilbarensis</td>
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<td>Corymbia hamersleyana</td>
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<td>Hybanthus aurantiacus</td>
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<td>Eriachne mucronata</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>Acacia maitlandii</td>
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<td>Indigofera fractiflexa Peter G.Wilson &amp; Rowe ms</td>
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<td>Gossypium robinsonii</td>
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<td>0.5-1.5</td>
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<tr>
<td>Clerodendrum tomentosum var. lanceolatum</td>
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<td></td>
</tr>
<tr>
<td>Aspect</td>
<td>South</td>
<td></td>
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</tr>
<tr>
<td>Soil</td>
<td>Skeletal - red/brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone</td>
<td></td>
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<tr>
<td>% Bare Ground</td>
<td>35</td>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
<td>Excellent to very good</td>
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<td>Disturbance Type</td>
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<td></td>
<td></td>
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<tr>
<td>Fire Age</td>
<td>Young &amp; Old, patchy</td>
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Hummock Grassland of Triodia pungens, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Shrubland of Dodonaea pachyneura with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over High Open Shrubland of Acacia aneura, Eucalyptus pilbarensis

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<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<tbody>
<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>15</td>
<td>0.5-1.5</td>
<td></td>
</tr>
<tr>
<td>Triodia pungens</td>
<td>20</td>
<td>0.3-0.9</td>
<td></td>
</tr>
<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>10</td>
<td>2-6</td>
<td></td>
</tr>
<tr>
<td>Astrotricha hamptonii</td>
<td>&lt;1</td>
<td>0.5-1.5</td>
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<tr>
<td>Dodonaea pachyneura</td>
<td>20</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Duperreya commixta</td>
<td>&lt;1</td>
<td>Cl</td>
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</tr>
<tr>
<td>Eriachne mucronata</td>
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<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Acacia pruinocarpa</td>
<td>&lt;1</td>
<td>0.5</td>
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<tr>
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<tr>
<td>Psydrax latifolia</td>
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<td>0.5-1.5</td>
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<tr>
<td>Themeda triandra</td>
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<td>0.5</td>
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<td>Acacia aneura</td>
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<td>Eremophila latrobei subsp. latrobei</td>
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<tr>
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<tr>
<td>Aspect</td>
<td>South</td>
<td></td>
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</tr>
<tr>
<td>Soil</td>
<td>Skeletal - red/brown loam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Bare Ground</td>
<td>40</td>
<td></td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
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**Vegetation**

Hummock Grassland of Triodia wiseana with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Open Shrubland of Acacia pruinocarpa, Acacia pyrifolia

<table>
<thead>
<tr>
<th>Species</th>
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<th>Height</th>
<th>No.</th>
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</tr>
<tr>
<td>Acacia pruinocarpa</td>
<td>2</td>
<td>1-3</td>
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<tr>
<td>Mirbelia viminalis</td>
<td>&lt;1</td>
<td>0.5-1</td>
<td></td>
</tr>
<tr>
<td>Senna glutinosa subsp. pruinosa</td>
<td>&lt;1</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Acacia pyrifolia</td>
<td>2</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Triodia wiseana</td>
<td>40</td>
<td>0.5-1</td>
<td></td>
</tr>
<tr>
<td>Cassytha capillaris</td>
<td>2</td>
<td>Cl</td>
<td></td>
</tr>
<tr>
<td>Psydrax latifolia</td>
<td>&lt;1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
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<tr>
<td>Senna glutinosa subsp. x luerssenii</td>
<td>&lt;1</td>
<td>1.5</td>
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<tr>
<td>Acacia hamersleyensis</td>
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<td>1.5</td>
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<tr>
<td>Triodia pungens</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site PSE 32

Date 11/02/2010
Recorder JB
Photo 7285
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 708915
Northing 7465783
Habitat hill slope - Mid- steep spur
Aspect South
Soil Skeletal - red/brown loam

Rock Type Ironstone - outcrops, cobbles, pebbles - occasional+ B650 outcrops

% Bare Ground 28
% Logs: Twigs: Leaves <1:3:3
Vegetation Condition Excellent
Disturbance Type None evident
Fire Age Old

Vegetation
Hummock Grassland of Triodia wiseana with Shrubland of
Acacia hamersleyensis with Low Open Woodland of
Eucalyptus leucophloia subsp. leucophloia

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<td>Triodia wiseana</td>
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<td>Senna glutinosa subsp. glutinosa</td>
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<td>1.5-2.5</td>
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<td>Dodonaea viscosa subsp. mucronata</td>
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<td>Scaevola browniana subsp. browniana</td>
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<td>0.4</td>
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<td>Eucalyptus kingsmillii subsp. kingsmillii</td>
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<td>2-3</td>
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<tr>
<td>Psydrax latifolia</td>
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<tr>
<td>Eremophila jucunda subsp. pulcherrima</td>
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<td>0.5-1</td>
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<tr>
<td>Duperreya commixta</td>
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<td>Cl</td>
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</tr>
<tr>
<td>Corymbia hamersleyana</td>
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<td>4-5</td>
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</tr>
<tr>
<td>Cymbopogon ambiguus</td>
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<td>Acacia bivenosa</td>
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**Area C and Surrounds Study Area**

**Level 2 Flora & Vegetation Survey**

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<td>Shape/Size</td>
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<td>Datum</td>
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<tr>
<td>Zone</td>
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<tr>
<td>Easting</td>
<td>704421</td>
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<tr>
<td>Northing</td>
<td>7465695</td>
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<td>Habitat</td>
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<tr>
<td>Aspect</td>
<td>North / North west</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown loam</td>
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<td>Rock Type</td>
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<td>% Logs:Twigs:Leaves</td>
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*Open Tussock Grassland of Eriachne mucronata, Cymbopogon ambiguus over Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia ferritcicola*

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<thead>
<tr>
<th>Species</th>
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<th>Height</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corymbia ferritcicola</td>
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<td>1-3</td>
<td></td>
</tr>
<tr>
<td>Astrotricha hamptonii</td>
<td>&lt;1</td>
<td>0.5-2</td>
<td></td>
</tr>
<tr>
<td>Cymbopogon ambiguus</td>
<td>2</td>
<td>0.5-1</td>
<td></td>
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<tr>
<td>Eriachne mucronata</td>
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<td>1-3</td>
<td>CBJ37.02</td>
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<td>Triodia pungens</td>
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<td>Grevillea wickhamii subsp. hispidula</td>
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<td>1-3</td>
<td></td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<td>2-4</td>
<td></td>
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<tr>
<td>Corymbia hamersleyana</td>
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<td>1-3</td>
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<tr>
<td>Sida sp. Shovelanna Hill (S. van Leeuwen 3842)</td>
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<tr>
<td>Psydrax latifolia</td>
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<td>0.5-1</td>
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<td>Acacia pruinocarpa</td>
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<tr>
<td>Senna venusta</td>
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<td>0.5-1</td>
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<tr>
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<td>0.5-1</td>
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<td>Acacia pyrifolia</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<tr>
<td>Soil</td>
<td>Red/brown sandy loam - ironstone scree</td>
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</tr>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<td>Hummock Grassland of Triodia wiseana with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Shrubland of Acacia arida</td>
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#### Vegetation

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<tr>
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<td>Disturbance Type</td>
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<td>Hummock Grassland of Triodia wiseana, Triodia pungens with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Acacia arida</td>
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<td>Zone</td>
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<td>Northing</td>
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<tr>
<td>Aspect</td>
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<td>Soil</td>
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<td>Rock Type</td>
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<td>% Bare Ground</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<td>Vegetation Condition</td>
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<td>Disturbance Type</td>
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<td>Ptilotus obovatus var. obovatus</td>
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<td>Duperreya commixa</td>
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<td>Aristida burdigeae</td>
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<td>CBM36.01</td>
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<tr>
<td>Eremophila jucunda subsp. pulcherrima</td>
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**Recorder** | JB
**Photo** | 7294
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 704382
**Northing** | 7466842
**Habitat** | Small gorge
**Aspect** | N/A
**Soil** | Brown sandy loam in channel
**Rock Type** | Mixed ironstone - cliffs, outcrops, cobbles, pebbles, boulders
**% Bare Ground** | 40
**% Logs:Twigs:Leaves** | 2:05:08
**Vegetation Condition** | Excellent
**Disturbance Type** | None evident
**Fire Age** | Old

**Vegetation**

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### Vegetation

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<td>Acacia pyrifolia</td>
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<td>West</td>
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<td>Aspect</td>
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<tr>
<td>Soil</td>
<td>Skeletal - red/brown</td>
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<tr>
<td>Rock Type</td>
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<tr>
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<td>Fire Age</td>
<td>Old</td>
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<td>Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Open Shrubland of Acacia adoxa var. adoxa, Mirbelia viminalis</td>
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<td>Amphipogon sericeus</td>
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<td>Solanum phlomoides</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Aspect</td>
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<tr>
<td>Soil</td>
<td>Skeletal - clay loam</td>
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<td>Fire Age</td>
<td>Young &amp; old - patchy</td>
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<td>Hakea chordophylla</td>
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Recorder | DB
Photo | DB 26
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 705833
Northing | 7467473
Habitat | Lower hill - Hill crest
Aspect | South West
Soil | Red/brown skeletal sandy loam - dense ironstone scree
Rock Type | Ironstone
% Bare Ground | 40
% Logs:Twigs:Leaves | <1:<1:2
Vegetation Condition | Excellent
Disturbance Type | None evident
Fire Age | Moderate/ Old
Vegetation | Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia

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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Rock Type</td>
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</tr>
<tr>
<td>Disturbance Type</td>
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</tr>
<tr>
<td>Fire Age</td>
<td>Old</td>
</tr>
<tr>
<td>Vegetation</td>
<td>Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Gompholobium sp. Pilbara (N.F. Norris 908), Acacia adoxa var. adoxa, Acacia hilliana</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Species</th>
<th>% Cover</th>
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<th>No.</th>
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<tbody>
<tr>
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<tr>
<td>Corymbia hamersleyana</td>
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<td>3-6</td>
<td></td>
</tr>
<tr>
<td>Acacia adoxa var. adoxa</td>
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<td></td>
</tr>
<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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</tr>
<tr>
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<tr>
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<td>Senna ferraria</td>
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<tr>
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<td>North</td>
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</tr>
<tr>
<td>Soil</td>
<td>Skeletal - red/brown</td>
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<td>Fire Age</td>
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**Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia hamersleyana over Low Open Shrubland of Senna glutinosa subsp. glutinosa, Acacia hilliana**

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<tr>
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<tr>
<td>Indigofera monophylla</td>
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<tr>
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<td>0.5-1</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<tr>
<td>Enneapogon caerulescens</td>
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<td>Themeda triandra</td>
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### Site PSE 45

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<tr>
<td>Northing</td>
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<tr>
<td>Habitat</td>
<td>V- shaped valley drainage line - upper-mid slopes</td>
</tr>
<tr>
<td>Aspect</td>
<td>West / East</td>
</tr>
<tr>
<td>Soil</td>
<td>Skeletal - red/brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Gravel - outcrops, boulders, pebbles &amp; cobbles BIF ironstone</td>
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<tr>
<td>% Bare Ground</td>
<td>45</td>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
<td>Moderate to old</td>
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**Vegetation**

Hummock Grassland of *Triodia pungens*, *Triodia wiseana* with Low Open Woodland of *Eucalyptus leucophloia* subsp. *leucophloia*, *Corymbia ferritica*, *Corymbia hamersleyana* over Open Shrubland of *Dodonaea pachyneura*, *Acacia pyrifolia*, *Gossypium robinsonii*, *Acacia monticola* over Very Open Tussock Grassland of *Cymbopogon ambiguus*, *Themeda triandra*, *Eriachne mucronata*

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<td><em>Corymbia ferritica</em></td>
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<td>1-3</td>
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<tr>
<td><em>Eremophila jucunda</em> subsp. <em>pulcherrima</em></td>
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<td><em>Cymbopogon ambiguus</em></td>
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<td><em>Themeda triandra</em></td>
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<td><em>Eriachne mucronata</em></td>
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<td>0.4</td>
<td></td>
</tr>
<tr>
<td><em>Corymbia hamersleyana</em></td>
<td>1.5</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><em>Acacia pyrifolia</em></td>
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<td>0.5-2</td>
<td></td>
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<tr>
<td><em>Gossypium robinsonii</em></td>
<td>3.5</td>
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<td><em>Acacia hamersleyensis</em></td>
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<td>Acacia ancistrocarpa</td>
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### Site Description

**Site**
PSE 46

**Date**
12/02/2010

**Recorder**
MOC

**Photo**
46-47

**Shape/Size**
50m X 50m

**Datum**
GDA94

**Zone**
50K

**Easting**
709132

**Northing**
7467222

**Habitat**
Drainage line from hill

**Aspect**
North

**Soil**
Skeletal red/brown loam

**Rock Type**
Ironstone - outcropping

**% Bare Ground**
40

**% Logs:Twigs:Leaves**
0:0.5:0.5

**Vegetation Condition**
Excellent

**Disturbance Type**
None evident

**Fire Age**
Very old

**Vegetation**
Hummock Grassland of Triodia pungens with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hammersleyana over Open Shrubland of Acacia pruinocarpa

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<td>1-4</td>
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<tr>
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<td>1-2</td>
<td></td>
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<tr>
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<td>1-2</td>
<td></td>
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<tr>
<td>Acacia hilliana</td>
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<td>Aspect</td>
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<tr>
<td>Soil</td>
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<td></td>
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<tr>
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<tr>
<td>Fire Age</td>
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Low Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over High Shrubland of Acacia monticola over Open Hummock Grassland of Triodia pungens, Triodia wiseana and Open Tussock Grassland of Themeda triandra, Eriachne mucronata with Low Open Shrubland of Santalum lanceolatum, Acacia hamersleyensis, Dodonaea lanceolata var. lanceolata

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<th>Species</th>
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<tr>
<td>Corymbia hamersleyana</td>
<td>15</td>
<td>5-10</td>
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</tr>
<tr>
<td>Acacia monticola</td>
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<td>&gt;2</td>
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<tr>
<td>Triodia pungens</td>
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<td>0.5-1</td>
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<tr>
<td>Triodia wiseana</td>
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<td>0.5</td>
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<tr>
<td>Acacia hamersleyensis</td>
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<tr>
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<td>&lt;1</td>
<td>0.5</td>
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<tr>
<td>Rulingia luteiflora</td>
<td>&lt;1</td>
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<tr>
<td>Eriachne mucronata</td>
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<td>0.5</td>
<td></td>
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<tr>
<td>Acacia pyrifolia</td>
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<td>Themeda triandra</td>
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Site PSE 49

Date 13/02/2010
Recorder JB
Photo 7305
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 713690
Northing 7466145
Habitat hill slope - mid - moderate slope
Aspect South west
Soil Skeletal - red/brown loan
Rock Type Ironstone - BIF - silica
% Bare Ground 25
% Logs:Twigs:Leaves 01:01.5
Vegetation Condition Excellent
Disturbance Type None evident
Fire Age Old

Open Heath of Acacia monticola over Hummock Grassland of Triodia wiseana with Low Open Shrubland of Acacia adoxa var. adoxa, Acacia hilliana, Gompholobium sp. Pilbara (N.F. Norris 908) with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia

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<th>Species</th>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>0.5-1</td>
<td>CBJ4.03</td>
</tr>
<tr>
<td>Acacia hilliana</td>
<td>2.5</td>
<td>&lt;0.5</td>
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</tr>
<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>0.5-0.8</td>
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<tr>
<td>Amyema sp. indet. (on Corymbia hamersleyana)</td>
<td>&lt;1</td>
<td>Cl</td>
<td>N/C</td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<td>Rulingia luteiflora</td>
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<tr>
<td>Senna glutinosa subsp. glutinosa</td>
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### Area C and Surrounds Study Area

**Level 2 Flora & Vegetation Survey**

**Site** | **PSE 50**
---|---
**Date** | 13/02/2010
**Recorder** | JB
**Photo** | 7308
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 713252
**Northing** | 7465756
**Habitat** | Hill crest
**Aspect** | South
**Soil** | Skeletal - brown loam
**Rock Type** | chert - silica rich shales - light coloured
**% Bare Ground** | 30
**% Logs:Twigs:Leaves** | 0:<1:1
**Vegetation Condition** | Excellent
**Disturbance Type** | None evident
**Fire Age** | Old
**Vegetation**

Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Open Shrubland of Acacia bivenosa with Scattered Low Trees of Eucalyptus leucophloia subsp. leucophloia

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<tr>
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<tr>
<td>Triodia wiseana</td>
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<td>Senna glutinosa subsp. pruinosa</td>
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### Site Information

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<tr>
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<td>713912</td>
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<tr>
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<tr>
<td><strong>Habitat</strong></td>
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<td><strong>Aspect</strong></td>
<td>North</td>
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<tr>
<td><strong>Soil</strong></td>
<td>Skeletal red/brown loam</td>
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<td><strong>Rock Type</strong></td>
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**Vegetation**

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<td></td>
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<td>Moderate</td>
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<td>Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Open Shrub and of Acacia hilliana</td>
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<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>Hakea chordophylla</td>
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<td>1-2</td>
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<td>Rulingia luteiflora</td>
<td>&lt;1</td>
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**Vegetation**

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<td>Corymbia hamersleyana</td>
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<td>4-10</td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<tr>
<td>Acacia tumida var. pilbarensis</td>
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<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<tr>
<td>Themeda triandra</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>0.5-1.5</td>
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<tr>
<td>Acacia pyriforma</td>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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<tr>
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<tr>
<td>Acacia hilliana</td>
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<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.4</td>
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<td>Solanum phlomoides</td>
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<td>Trichodesma zeylanicum</td>
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<tr>
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<td>Rulingia luteiflora</td>
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Area C and Surrounds Study Area  
Level 2 Flora & Vegetation Survey

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<td>Soil</td>
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**Vegetation**

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<td>Duperreya commixta</td>
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<td>Paraneurachne muelleri</td>
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<td>Rhynchosia minima</td>
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<td>Capparis lasiantha</td>
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### Area C and Surrounds Study Area

#### Level 2 Flora & Vegetation Survey

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<td>Aspect</td>
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<td>Soil</td>
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<td>Rock Type</td>
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**Vegetation**

Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Acacia hilliana

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<tr>
<td>Solanum phlomoides</td>
<td>&lt;1</td>
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<td>Cymbopogon ambiguus</td>
<td>&lt;1</td>
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<td>Corchorus lasiocarpace subsp. parvus</td>
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<td>0.5</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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**Recorder** | MOC
**Photo** | 54
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 716858
**Northing** | 7466288
**Habitat** | hill slope
**Aspect** | North
**Soil** | Skeletal red/brown
**Rock Type** | Ironstone - cobbles and pebbles
**% Bare Ground** | 60
**% Logs:Twigs:Leaves** | <1:1:3
**Vegetation Condition** | Very good
**Disturbance Type** | Fire
**Fire Age** | Young

**Vegetation**

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<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>0.5</td>
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Hummock Grassland of Triodia wiseana with Shrubland of Acacia hamersleyensis with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Very Open Mallee of Eucalyptus kingsmillii subsp. kingsmillii over Very Open Tussock Grassland of Eriachne mucronata, Eriachne lanata

### Vegetation

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### Vegetation

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### Area C and Surrounds Study Area

#### Level 2 Flora & Vegetation Survey

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**Vegetation**

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<tr>
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<tr>
<td>Fire Age</td>
<td>Moderate</td>
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<tr>
<td>Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Shrubland of Acacia hilliana with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia</td>
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### Vegetation

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<th>%</th>
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<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>&gt;2</td>
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<tr>
<td>Santalum lanceolatum</td>
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<td>1-2</td>
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<tr>
<td>Duperreya commixta</td>
<td>&lt;1</td>
<td>Cl</td>
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<tr>
<td>Acacia hilliana</td>
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</tr>
<tr>
<td>Acacia hamersleyensis</td>
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<td>CBD66.01</td>
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<tr>
<td>Rulingia luteiflora</td>
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<td></td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<td></td>
</tr>
<tr>
<td>Acacia pyrifolia</td>
<td>&lt;1</td>
<td>1-3</td>
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Site | PSE 67
---|---
Date | 13/02/2010
Recorder | JB
Photo | 7313
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 718148
Northing | 7465338
Habitat | Cliff line - part of small gorge at head of valley
Aspect | South
Soil | Brown loam - gravel
Rock Type | Ironstone - red/orange/black - boulders, outcrops, cobbles and pebbles
% Bare Ground | 65
% Logs:Twigs:Leaves | 03:02.5
Vegetation Condition | Very good
Disturbance Type | Fire recent <2 years
Fire Age | Young

Low Open Woodland of Corymbia ferriticola, Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Very Open Hummock Grassland of Triodia pungens over Very Open Tussock Grassland of Eriachne mucronata, Cymbopogon ambiguus and Themeda triandra

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<tr>
<td>Rhodanthe margarethae</td>
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<td>0.5&lt;1</td>
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<td>1-1.5</td>
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<tr>
<td>Eriachne mucronata</td>
<td>4</td>
<td>0.4</td>
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<tr>
<td>Astrotricha hamptonii</td>
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<td>0.5-1.3</td>
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<tr>
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<td>0.5-1</td>
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<td>Solanum horridum</td>
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<tr>
<td>?Lobelia heterophylla (dead)</td>
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<td>Solanum gabrielae</td>
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<tr>
<td>Indigofera fractiflexa Peter G.Wilson &amp; Rowe ms</td>
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<td>0.35 CBJ85.04</td>
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<tr>
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<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<tr>
<td>Triodia pungens</td>
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<td>0.5</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>0.5 CBJ4.03</td>
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<td>Amphipogon sericeus</td>
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<tr>
<td>Ptilotus exaltatus var. exaltatus</td>
<td>&lt;1</td>
<td>0.4</td>
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<tr>
<td>Eucalyptus kingsmillii subsp. kingsmillii</td>
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<td>1-2</td>
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<td>Species</td>
<td>Density</td>
<td>Height</td>
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<tr>
<td>----------------------------------------</td>
<td>---------</td>
<td>------------</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>0.5-1</td>
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<tr>
<td>Senna venusta</td>
<td>&lt;1</td>
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</tr>
<tr>
<td>Sida sp. Golden calyces glabrous (H.N. Foote 32),</td>
<td>&lt;1</td>
<td>0.5</td>
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<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
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<td>0.5</td>
</tr>
<tr>
<td>Oldenlandia crouchiana</td>
<td>&lt;1</td>
<td>0.15 N/C</td>
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<tr>
<td>Paspalidium clementii</td>
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<td>0.15 N/C</td>
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<tr>
<td>Triumfetta leptacantha</td>
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<td>0.35</td>
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<td>Ptilotus obovatus var. obovatus</td>
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<td>0.5-1</td>
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<tr>
<td>Dodonaea viscosa subsp. mucronata</td>
<td>&lt;1</td>
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<tr>
<td>Themeda triandra</td>
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<td>0.5-1</td>
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<tr>
<td>Gossypium robinsonii</td>
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<td>1-2</td>
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<tr>
<td>Ficus brachypoda</td>
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<td>Euphorbia australis</td>
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<tr>
<td>Acacia pyrifolia</td>
<td>0.5</td>
<td>0.5-1</td>
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<td>Petalostylis labicheoides</td>
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<td>1-2</td>
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<tr>
<td>Triodia wiseana</td>
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### Site Information

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<td>Aspect</td>
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<tr>
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<td>Skeletal orange/brown</td>
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<td>Rock Type</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<td>Disturbance Type</td>
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</tr>
<tr>
<td>Fire Age</td>
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### Vegetation

- Open Hummock Grassland of Triodia wiseana with Low Shrubland of Acacia hilliana, Acacia adoxa var. adoxa, Petalostylis labicheoides with Low Open Woodland of Corymbia hamersleyana, Eucalyptus gamophylla

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<td>0.5</td>
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<tr>
<td>Acacia pyrifolia</td>
<td>&lt;1</td>
<td>1-2</td>
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</tr>
<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>20</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Corymbia hamersleyana</td>
<td>6</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>Acacia hilliana</td>
<td>8</td>
<td>0.4</td>
<td></td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<td>0.4</td>
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<td>Petalostylis labicheoides</td>
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<td>Eucalyptus gamophylla</td>
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<td>Corchorus lasiocarpus subsp. parvus</td>
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<tr>
<td>Northing</td>
<td>7464950</td>
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<td>Gorge</td>
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<td>Aspect</td>
<td>South</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown clay loam - outcropping, cliffs</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone</td>
</tr>
<tr>
<td>% Bare Ground</td>
<td>60</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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#### Vegetation

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<td>Corymbia hamersleyana</td>
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<td>1-2</td>
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<tr>
<td>Astrotricha hamptonii</td>
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<tr>
<td>Dodonaea viscosa subsp. mucronata</td>
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<td>1-2</td>
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<tr>
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<td>Eriachne mucronata</td>
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</tr>
<tr>
<td>Themeda triandra</td>
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<td>0.8</td>
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<td>Cymbopogon ambiguus</td>
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<td>Eremophila jucunda subsp. pulcherrima</td>
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<td>Ptilotus obovatus var. obovatus</td>
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<tr>
<td>Triodia pungens</td>
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<tr>
<td>Indigofera fractiflexa Peter G. Wilson &amp; Rowe ms</td>
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<td>0.5</td>
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<tr>
<td>Newcastelia sp. Hamersley Range (S. van Leeuwen 4264)</td>
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<tr>
<td>Species</td>
<td>Value</td>
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<td>---------------------------------</td>
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<td>Astrotricha hamptonii</td>
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<tr>
<td>Sida sp. Shovelanna Hill (S. van Leeuwen 3842)</td>
<td>&lt;1</td>
<td>0.2</td>
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<tr>
<td>Acacia pyrifolia</td>
<td>&lt;1</td>
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Area C and Surrounds Study Area  
Level 2 Flora & Vegetation Survey

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<tr>
<td>Soil</td>
<td>Skeletal - red/brown</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - outcrops, cobbles &amp; pebbles</td>
</tr>
<tr>
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<tr>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
<td>Young &amp; very old - patchy burn</td>
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<td>Vegetation</td>
<td>Hummock Grassland of Triodia wiseana with Low Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over High Open Shrubland of Acacia hamersleyensis</td>
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<table>
<thead>
<tr>
<th>Species</th>
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<td>3-5</td>
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<td>Acacia hamersleyensis</td>
<td>7</td>
<td>1-3</td>
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<td>0.5-1.5</td>
<td>CBJ4.01</td>
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<td>Petalostylis labicheoides</td>
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<td>1-2.5</td>
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<td>Acacia pyriformia</td>
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<td>0.5-2</td>
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<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>CBJ4.03</td>
</tr>
<tr>
<td>Grevillea wickhamii subspp. hispidula</td>
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<td>1-3</td>
<td></td>
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<tr>
<td>Santalum lanceolatum</td>
<td>0.5</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td>Eucalyptus kingsmillii subspp. kingsmillii</td>
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<td>1-2</td>
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<tr>
<td>Scaevola browniana subspp. browniana</td>
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### Site PSE 71

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<tr>
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</tr>
<tr>
<td>Rock Type</td>
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<td>Hummock Grassland of Triodia wiseana with Shrubland of Grevillea wickhamii subsp. hispidula with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia</td>
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#### Vegetation

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<tr>
<td>Petalostylis labicheoides</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<tr>
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### Area C and Surrounds Study Area
### Level 2 Flora & Vegetation Survey

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<td>Soil</td>
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<tr>
<td>Rock Type</td>
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<td>Fire Age</td>
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#### Vegetation

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<td>Senna venusta</td>
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<tr>
<td>Eriachne mucronata</td>
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<td>Newcastelia sp. Hamersley Range (S. van Leeuwen 4264)</td>
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456
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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Open Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Acacia hilliana, Acacia adoxa var. adoxa

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<td>Hakea chordophylla</td>
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<td>Grevillea wickhamii subsp. hispidula</td>
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<td>Petalostylis labicheoides</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>Paraneurachne muelleri</td>
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<td>Soil</td>
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<tr>
<td>Fire Age</td>
<td>Young</td>
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The vegetation survey described a Low Open Forest of Eucalyptus xerothermica, Corymbia hamersleyana over Tussock Grassland of Cymbopogon ambiguus, Themeda triandra with Shrubland of Acacia monticola, Petalostylis labicheoides, Santalum lanceolatum.

### Vegetation Data

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<td>Eucalyptus xerothermica</td>
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<td>Gossypium robinsonii</td>
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460
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CBD75.02

CBD75.03
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<tr>
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<td>Acacia tumida var. pilbarensis</td>
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<td>Triodia pungens</td>
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<td>Eriachne mucronata</td>
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<td>Themeda triandra</td>
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<td>Acacia monticola</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Fire Age</td>
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<td>Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia deserticola subsp. deserticola</td>
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<td>Goodenia stobbsiana</td>
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<td>0.4</td>
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</tr>
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<td>Acacia adoxa var. adoxa</td>
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<td>0.3</td>
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<td>Hakea chordophylla</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>Santalum lanceolatum</td>
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<td>Corymbia hamersleyana</td>
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<td>East</td>
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<tr>
<td>Soil</td>
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Hummock Grassland of *Triodia wiseana*, *Triodia pungens* with Low Woodland of *Eucalyptus leucophloia subsp. leucophloia*, *Corymbia ferritcula*, *Corymbia hamersleyana* over Open Shrubland of *Acacia hamersleyensis*, *Acacia pyrifolia*

### Vegetation

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<td><em>Acacia pyrifolia</em></td>
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Shrubland of Acacia hilliana, Indigofera monophylla over Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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<td>Gossypium robinsonii</td>
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<td>Themeda triandra</td>
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<td>Sida sp. Pilbara (A.A. Mitchell PRP 1543)</td>
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<td>Acacia monticola</td>
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<td>Size</td>
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### Site

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<td>Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Scattered Low Trees of Corymbia deserticola subsp. deserticola over Scattered Herbs of Goodenia stobbsiana</td>
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### Vegetation

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Shrubland of Gossypium robinsonii, Acacia tumida var. pilbarensis over Very Open Hummock Grassland of Cymbopogon ambiguus, Themeda triandra and Very Open Hummock Grassland of Triodia pungens with Scattered Low Trees of Eucalyptus leucophloia subsp. leucophloia

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<tr>
<td>Vegetation</td>
<td>Low Shrubland of Acacia hilliana, Mirbelia viminalis over Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana</td>
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<td>Corymbia hamersleyana</td>
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<td>Acacia hilliana</td>
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<td>Mirbelia viminalis</td>
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<tr>
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<td>Rock Type</td>
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<td>% Bare Ground</td>
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<td>Vegetation</td>
<td>Low Woodland of Corymbia ferriticola, Atalaya hemiglauca and Ficus brachypoda over Open Tussock Grassland of Themeda triandra and Eulalia aurea</td>
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<td>Corymbia ferriticola</td>
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<tr>
<td>Cleome viscosa</td>
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<td>Grevillea wickhamii subsp. hispidula</td>
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<td>Acacia tumida var. pilbarensis</td>
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<td>Euphorbia coghlanii</td>
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<td>Eulalia aurea</td>
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### Site Details

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<td>Tussock Grassland of Themeda triandra, Eriachne tenuiculmis, Cymbopogon cf. procerus with High Shrubland of Gossypium robinsonii, Acacia tumida var. pilbarensis, Grevillea wickhamii subsp. hispidula, Acacia pyrifolia with Low Open Woodland of Corymbia hamersleyana, Acacia pruinocarpa over Very Open Hummock Grassland of Triodia pungens</td>
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### Vegetation Table

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<td>Triodia pungens</td>
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<td>Corymbia ferricola</td>
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### Study Area

**Area C and Surrounds Study Area**

### Level 2 Flora & Vegetation Survey

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<td>Aspect</td>
<td>East</td>
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<td>Soil</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
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<tr>
<td>Disturbance Type</td>
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<td>Low Woodland of Eucalyptus victrix over Low Shrubland of Tephrosia rosea var. glabrior, Cleome viscosa with Open Shrubland of Gossypium robinsonii over Very Open Tussock Grassland of Cymbopogon ambiguus, Eriachne tenuiculmis over Scattered Hummock Grassland of Triodia pungens</td>
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### Vegetation

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<td>Grevillea wickhamii subsp. hispidula</td>
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<td>Acacia pyrifolia</td>
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<td>Rulingia luteiflora</td>
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<td>Cleome viscosa</td>
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<td>Eriachne tenuiculmis</td>
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<td>Cymbopogon ambiguus</td>
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<td>Duperreya commixta</td>
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<td>Abundance</td>
<td>Height (m)</td>
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<td>Soil</td>
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<td>High Open Shrubland of Acacia inaequilatera over Low Open Shrubland of Acacia spondylophylla, Corchorus lasiocarpus subsp. parvus over Very Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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---|---
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Recorder | DB/SF
Photo | DB 27 & SF 537
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 724189
Northing | 7464153
Habitat | Upper hill slope
Aspect | North
Soil | Red/brown loam
Rock Type | Ironstone - outcropping and pebbles
% Bare Ground | 70
% Logs:Twigs:Leaves | 1:03:05
Vegetation Condition | Very good
Disturbance Type | Access track nearby, fire 2-3 years
Fire Age | Young
Vegetation | Low Shrubland of Acacia hilliana, Gompholobium sp. Pilbara (N.F. Norris 908) with Low Open Woodland of Eucalyptus subsp. leucophloia over Scattered Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)

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<tr>
<td>Mirbelia viminalis</td>
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<tr>
<td>Acacia adoza var. adoza</td>
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<tr>
<td>Grevillea berryana</td>
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<td>Scaevola browniana subsp. browniana</td>
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<td>Solanum horridum</td>
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<tr>
<td>Eriachne mucronata</td>
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<td>Acacia pruinocarpa</td>
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<td>Dodonaea coriacea</td>
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<tr>
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<td>0.2</td>
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<tr>
<td>Codonocarpus cotinifolius</td>
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<td>Height (m)</td>
<td>Code</td>
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<td>Aspect</td>
<td>North - South</td>
<td></td>
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<tr>
<td>Soil</td>
<td>Light brown loam</td>
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<tr>
<td>Rock Type</td>
<td>BIF - outcropping, stony, bouldery</td>
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<tr>
<td>% Bare Ground</td>
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<td>Vegetation Condition</td>
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<td>Disturbance Type</td>
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**Vegetation**

Open Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Sida sp. Golden calyces glabrous (H.N. Foote 32)

<table>
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<th>Species</th>
<th>% Cover</th>
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<tr>
<td>Senna glutinosa subsp. pruinosa</td>
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<td>0.8</td>
<td></td>
</tr>
<tr>
<td>Sida sp. Golden calyces glabrous (H.N. Foote 32)</td>
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<td></td>
</tr>
<tr>
<td>Triodia wiseana</td>
<td>20</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>Ptilotus rotundifolius</td>
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<tr>
<td>Solanum horridum</td>
<td>&lt;1</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Cymbopogon ambiguus</td>
<td>0.5</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>Paraneurachne muelleri</td>
<td>&lt;1</td>
<td>0.4</td>
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</tr>
<tr>
<td>Amphipogon sericeus</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Acacia adoxa var. adoxa</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Ptilotus calostachyus</td>
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<td>0.7</td>
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<tr>
<td>Acacia spondylophylla</td>
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<td>0.3</td>
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</tr>
<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
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<tr>
<td>Dodonaea spondylophylla</td>
<td>&lt;1</td>
<td>0.3</td>
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<tr>
<td>Hibiscus sturtii var. campylochlamys</td>
<td>&lt;1</td>
<td>0.3</td>
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<tr>
<td>Maireana triptera</td>
<td>&lt;1</td>
<td>0.2</td>
<td></td>
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<tr>
<td>Eriachne mucronata</td>
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<td>0.2</td>
<td></td>
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<tr>
<td>Sida sp. Pilbara (A.A. Mitchell PRP 1543)</td>
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<td>Ptilotus exaltatus var. exaltatus</td>
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### Site PSE 90

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<th>Photo</th>
<th>Shape/Size</th>
<th>Datum</th>
<th>Zone</th>
<th>Easting</th>
<th>Northing</th>
<th>Habitat</th>
<th>Aspect</th>
<th>Soil</th>
<th>Rock Type</th>
<th>% Bare Ground</th>
<th>% Logs:Twigs:Leaves</th>
<th>Vegetation Condition</th>
<th>Disturbance Type</th>
<th>Fire Age</th>
<th>Vegetation</th>
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<td>GH</td>
<td>7988</td>
<td>50m X 50m</td>
<td>GDA94</td>
<td>50K</td>
<td>7233248</td>
<td>7464394</td>
<td>Upper-mid hill slope</td>
<td>North - moderate</td>
<td>Red/brown loam</td>
<td>Ironstone - outcropping and cobbles</td>
<td>55</td>
<td>&lt;1:3:&lt;1</td>
<td>Very good</td>
<td>Access tracks, fire</td>
<td>Moderate</td>
<td>Shrubland of Grevillea wickhamii subsp. hispidula, Petalostylis labicheoides over Low Shrubland of Acacia spondylophylla, Acacia hilliana, Mirbelia viminalis with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Very Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia pungens</td>
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### Species

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<tbody>
<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<td>1-2.5</td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>4.5</td>
<td>4-6</td>
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</tr>
<tr>
<td>Petalostylis labicheoides</td>
<td>5</td>
<td>1-2.5</td>
<td></td>
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<tr>
<td>Mirbelia viminalis</td>
<td>2</td>
<td>0.5-1</td>
<td></td>
</tr>
<tr>
<td>Acacia spondylophylla</td>
<td>6</td>
<td>&lt;0.5</td>
<td></td>
</tr>
<tr>
<td>Acacia hilliana</td>
<td>9</td>
<td>&lt;0.5</td>
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<tr>
<td>Triodia pungens</td>
<td>1</td>
<td>&lt;0.5</td>
<td></td>
</tr>
<tr>
<td>Calytrix carinata</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>Scaevola browniana subsp. browniana</td>
<td>&lt;1</td>
<td>0.3</td>
<td>ACC90.01</td>
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<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
<td>1</td>
<td>0.4</td>
<td>R55.03</td>
</tr>
<tr>
<td>Dodonaea coriacea</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>3</td>
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</tr>
<tr>
<td>Eriachne lanata</td>
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<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
<td>1.5</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Cymbopogon ambiguus</td>
<td>&lt;1</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>Acacia monticola</td>
<td>&lt;1</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>0.5</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Sida arenicola</td>
<td>&lt;1</td>
<td>1-1.5</td>
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Tephrosia virens  

|         | <1 | 0.5-1 | ACC90.02 |

Area C and Surrounds Study Area  
Level 2 Flora & Vegetation Survey
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<tr>
<td>Northing</td>
<td>7463891</td>
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<tr>
<td>Habitat</td>
<td>Upper hill slope/ Scree slope with ironstone ridge and outcropping</td>
</tr>
<tr>
<td>Aspect</td>
<td>South - moderate</td>
</tr>
<tr>
<td>Soil</td>
<td>brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - ridge and outcropping with Shale and Chert</td>
</tr>
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<td>% Logs:Twigs:Leaves</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Access track near</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Young - Old - patchy</td>
</tr>
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<td>Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Woodland of Eucalyptus leucophloia subsp. leucophloia over Open Shrubland of Acacia bivenosa, Acacia hamersleyensis over Very Open Tussock Grassland of Eriachne mucronata, Cymbopogon ambiguus</td>
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<td>Acacia bivenosa</td>
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<td>1-2</td>
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<td>Themeda triandra</td>
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<td>Corymbia ferriticola</td>
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<td>1-2</td>
<td></td>
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<tr>
<td>Acacia hamersleyensis</td>
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<td>1-1.5</td>
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<td>Mirbelia viminalis</td>
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<td>0.5-1</td>
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<tr>
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<td>R55.03</td>
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<td>0.5</td>
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<tr>
<td>Amphipogon sericeus</td>
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<td>0.35</td>
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<td>Paraneurachne muelleri</td>
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<td>7463306</td>
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<td>Habitat</td>
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<td>Aspect</td>
<td>South</td>
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<tr>
<td>Soil</td>
<td>Skeletal - light brown loam</td>
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<td>Rock Type</td>
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<td>Very old</td>
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<td>Low Open Forest of Acacia catenulata subsp. occidentalis, Acacia aneura var. intermedia, Grevillea aff. berryana over Open Shrubland of Scaevola acacioides, Acacia tetragonophylla over Very Open Tussock Grassland of Eriachne mucronata</td>
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</tbody>
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### Vegetation

<table>
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<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<td>6-8</td>
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<td>Eriachne mucronata</td>
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<td>Atalaya hemiglauca</td>
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<td>Scaevola acacioides</td>
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<td>Triodia pungens</td>
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<td>Ficus brachypoda</td>
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OPP COLL

Acacia spondylophylla | ACC92OC |
### Site PSE 93

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<td>Habitat</td>
<td>mid-lower slope - rocky scree</td>
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<tr>
<td>Aspect</td>
<td>East</td>
</tr>
<tr>
<td>Soil</td>
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<tr>
<td>Rock Type</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Access Track nearby</td>
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<tr>
<td>Fire Age</td>
<td>Young</td>
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<tr>
<td>Vegetation</td>
<td>Open Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Acacia bivenosa, Lepidium catapyconon, Goodenia stobbsiana</td>
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### Vegetation

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<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<tr>
<td>Acacia bivenosa</td>
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<tr>
<td><strong>Lepidium catapyconon</strong></td>
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<td>*DRF</td>
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<tr>
<td>Triodia wiseana</td>
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<td>0.2</td>
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<tr>
<td>Senna glutinosa subsp. pruinosa</td>
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<tr>
<td>Ptilotus rotundifolius</td>
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<tr>
<td>Goodenia stobbsiana</td>
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<td>0.3</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<tr>
<td>Senna symonii</td>
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<tr>
<td>Sida sp. Golden calyces glabrous (H.N. Foote 32)</td>
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<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Sida sp. Pilbara (A.A. Mitchell PRP 1543)</td>
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</tr>
<tr>
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<td>Paraneurachne muelleri</td>
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<td>0.5</td>
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<tr>
<td>Hakea chordophylla</td>
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<tr>
<td>Gossypium robinsonii</td>
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<tr>
<td>Indigofera monophylla</td>
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<td>0.3</td>
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<tr>
<td>Acacia pruinocarpa</td>
<td>&lt;1</td>
<td>0.1</td>
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<td>Amphipogon sericeus</td>
<td>&lt;1</td>
<td>0.2</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen)</td>
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**Species**

- Eucalyptus leucophloia subsp. leucophloia
- Acacia bivenosa
- Lepidium catapyconon
- Triodia wiseana
- Senna glutinosa subsp. pruinosa
- Ptilotus rotundifolius
- Goodenia stobbsiana
- Cymbopogon ambiguus
- Senna symonii
- Acacia adoxa var. adoxa
- Sida sp. Golden calyces glabrous (H.N. Foote 32)
- Sida sp. Pilbara (A.A. Mitchell PRP 1543)
- Dodonaea coriacea
- Paraneurachne muelleri
- Hakea chordophylla
- Gossypium robinsonii
- Indigofera monophylla
- Acacia pruinocarpa
- Amphipogon sericeus
- Triodia sp. Shovelanna Hill (S. van Leeuwen)
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<th>Species</th>
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<th>Density</th>
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<td>Corchorus lasiocarpus subsp. parvus</td>
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<tr>
<td>Acacia maitlandii</td>
<td>&lt;1</td>
<td>0.6</td>
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<tr>
<td>Solanum horridum</td>
<td>&lt;1</td>
<td>0.1</td>
</tr>
<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.7</td>
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<tr>
<td>Corymbia hamersleyana</td>
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<td>0.7</td>
</tr>
<tr>
<td>Ptilotus obovatus var. obovatus</td>
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<td>0.05</td>
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<td>Ptilotus calostachyus</td>
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<td>Site</td>
<td>PSE 94</td>
<td></td>
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<tr>
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<td>Habitat</td>
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<tr>
<td>Aspect</td>
<td>North - North West</td>
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<tr>
<td>Soil</td>
<td>Skeletal brown loam</td>
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</tr>
<tr>
<td>Rock Type</td>
<td>Orange/black Ironstone - outcropping, boulders, cobbles and scree slopes</td>
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<tr>
<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Access track, Fire</td>
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<tr>
<td>Fire Age</td>
<td>Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Very Open Tussock Grassland of Cymbopogon ambiguus over Very Open Hummock Grassland of Triodia brizoides, Triodia pungens, Triodia wiseana</td>
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<th>Species</th>
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<td>Acacia pruinocarpa</td>
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<td>0.5-1</td>
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<td>Paraneurachne muelleri</td>
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<td>Triodia brizoides</td>
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<td>Ptilotus calostachyus</td>
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<td>Hakea chordophylla</td>
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<td>1-2</td>
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<tr>
<td>Ptilotus exaltatus var. exaltatus</td>
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<td>Triodia pungens</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<tr>
<td>Acacia pyrifolia</td>
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498
Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>North</td>
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<td>Disturbance Type</td>
<td>Intensity of fire</td>
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<td>Fire Age</td>
<td>Young</td>
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Vegetation

Low Shrubland of Indigofera monophylla, Goodenia stobbsiana, Acacia adoxa var. adoxa with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia desertica subsp. desertica over Very Open Hummock Grassland of Triodia wiseana

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<tr>
<td>Corymbia hamersleyana</td>
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<td>1-3</td>
<td></td>
</tr>
<tr>
<td>Acacia pruinocarpa</td>
<td>1.5</td>
<td>1-2</td>
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<tr>
<td>Senna glutinosa subsp. glutinosa</td>
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<td>1</td>
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<td>Grevillea wickhamii subsp. hispidula</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>Eriachne mucronata</td>
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<td>0.5</td>
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<td>Triodia wiseana</td>
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<td>Dampiera candidans</td>
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Triumfetta maconochieana <1 0.5 1
Corchorus lasiocarpus subsp. parvus <1 0.5

Acacia cf. hamersleyensis <1 4 2
Ficus brachypoda <1 1.5
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<td>Aspect</td>
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<tr>
<td>Soil</td>
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<tr>
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<td>Disturbance Type</td>
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<td>Fire Age</td>
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<tr>
<td>Vegetation</td>
<td>Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Very Open Tussock Grassland of Eriachne mucronata</td>
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<tr>
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<td>Fire Age</td>
<td>Moderate</td>
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Site PSE 98

Date 16/06/2010
Recorder GH
Photo 7991
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 720312
Northing 7463521
Habitat Mid hill slope - gentle to moderate
Aspect South West - South
Soil Skeletal red/brown loam
Rock Type Ironstone - outcrops, cobbles and pebbles
% Bare Ground 25
% Logs:Twigs:Leaves 0:<1:2
Vegetation Condition Excellent
Disturbance Type None evident
Fire Age Old

Vegetation
Hummock Grassland of Triodia wiseana with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Open Shrubland of Mirbelia viminalis

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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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## Site PSE 99

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<td>Fire Age</td>
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### Vegetation

- Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Sida sp. Pilbara (A.A. Mitchell PRP 1543), Corchorus lasiocarpos subsp. parvus, Indigofera monophylla over Very Open Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)

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<td>Acacia pruinocarpa</td>
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<tr>
<td>Capparis spinosa var. nummularia</td>
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<td>Soil</td>
<td>Red/brown loam</td>
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<td>Rock Type</td>
<td>Ironstone - light outcropping, cobbles and pebbles</td>
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<tr>
<td>% Bare Ground</td>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
<td>Young</td>
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Vegetation:
Low Shrubland of Acacia hilliana, Acacia adoxa var. adoxa, Corchorus lasiocarpus subsp. parvus with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Very Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)

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<tr>
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<td>1.5</td>
<td>1-2</td>
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<tr>
<td>Acacia inaequilateral</td>
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<td>2-3</td>
<td></td>
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<tr>
<td>Hakea chordophylla</td>
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<td>15</td>
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<td>&lt;0.5</td>
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<tr>
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<td>0.3</td>
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<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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<td>0.5-1</td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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<td>&lt;0.5</td>
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<td>Amphipogon sericeus</td>
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<td>0.3</td>
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<tr>
<td>Gossypium australe</td>
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<tr>
<td>Keraudrenia velutina subsp. elliptica C.F.Wilkins ms</td>
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<tr>
<td>Senna glutinosa subsp. glutinosa</td>
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<tr>
<td>Senna glutinosa subsp. pruinosa</td>
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<td>Hibiscus coatesii</td>
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<tr>
<td>1</td>
<td>Acacia ptychophylla</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Habitat</td>
<td>Steep hill slope (above drainage line)</td>
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<td>South east</td>
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<td>Soil</td>
<td>Brown loam</td>
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<tr>
<td>Rock Type</td>
<td>Ironstone - outcropping, boulders and cobbles</td>
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<td>% Bare Ground</td>
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<td>Fire Age</td>
<td>Young</td>
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<tr>
<td>Vegetation</td>
<td>Open Hummock Grassland of Triodia wiseana with Low Open Shrubland of Dodonaea coriacea, Eremophila latrobei, Corchorus lasiocarpus subsp. parvus with Scattered Low Trees of Eucalyptus leucophloia subsp. leucophloia</td>
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<table>
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<th>% Cover</th>
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<tr>
<td>Triodia wiseana</td>
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<tr>
<td>Acacia pruinocarpa</td>
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<td>1.2</td>
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<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
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<td></td>
</tr>
<tr>
<td>Dampiera candidans</td>
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<tr>
<td>Acacia spondylophylla</td>
<td>&lt;1</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
<td>&lt;1</td>
<td>0.6</td>
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<tr>
<td>Dodonaea coriacea</td>
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<td>0.6</td>
<td></td>
</tr>
<tr>
<td>Calytrix carinata</td>
<td>&lt;1</td>
<td>0.6</td>
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<tr>
<td>Eremophila latrobei subsp. latrobei</td>
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<tr>
<td>Goodenia stobbsiana</td>
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<tr>
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<tr>
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<tr>
<td>Acacia pyrifolia</td>
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DCC101.0 1
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**Date** | 16/06/2010
**Recorder** | DB/SF
**Photo** | DB 38 & 39 & SF 553
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 722136
**Northing** | 7404816
**Habitat** | Drainage line (medium)
**Aspect** | North
**Soil** | Coarse alluvial brown sand and pebbles
**Rock Type** | BIF- boulders and plates
**% Bare Ground** | 25
**% Logs:Twigs:Leaves** | 3:08:10
**Vegetation Condition** | Very good
**Disturbance Type** | Fire
**Fire Age** | Young

**Vegetation**

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<td>Triodia pungens</td>
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### Site PSE 103

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#### Vegetation

- **Low Open Heath of Acacia spondylophylla, Acacia hilliana over Very Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Scattered Low Trees of Eucalyptus leucophloia subsp. leucophloia over Scattered Mallee of Eucalyptus gamophylla**

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### Vegetation Condition

Low Open Heath of Acacia hilliana with Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Hakea chordophylla

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**Vegetation**

Low Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Shrubland of Sida arenicola, Rulingia luteiflora over Open Hummock Grassland of Triodia pungens

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<tr>
<td>Goodenia stobbsiana</td>
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<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
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<td>Acacia hilliana</td>
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<td>Acacia pyrifolia</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
<td>&lt;1</td>
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</tr>
<tr>
<td>Themeda triandra</td>
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<tr>
<td>Triodia pungens</td>
<td>20</td>
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<tr>
<td>Eriachne mucronata</td>
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<td>0.5</td>
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</tr>
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<td>2</td>
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</tr>
<tr>
<td>Triodia wiseana</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<td>0.3</td>
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<tr>
<td>Dodonaea coriacea</td>
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<td>Species</td>
<td>Density</td>
<td>Cover</td>
<td></td>
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<tr>
<td>----------------------------------------</td>
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<tr>
<td>Dampiera candicans</td>
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<td>Indigofera monophylla</td>
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<td></td>
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<tr>
<td>Senna glutinosa subsp. glutinosa</td>
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<tr>
<td>Santalum lanceolatum</td>
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<td>1-2</td>
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<tr>
<td>Tephrosia rosea var. glabrior</td>
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<td>1.5</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site | PSE 107
---|---
Date | 16/06/2010
Recorder | GH
Photo | 8002
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 720476
Northing | 7464844
Habitat | Gorge with narrow incised drainage line and steep cliffs
Aspect | North - South
Soil | Riverine gravels/ skeletal slopes with orange brown loam
Rock Type | BIF/ Ironstone - cliff lines, boulders and cobbles
% Bare Ground | 20
% Logs:Twigs:Leaves | 4:05:15
Vegetation Condition | Excellent
Disturbance Type | None evident
Fire Age | Very old

Vegetation

Low Open Forest of Corymbia ferriticola, Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Tussock Grassland of Themeda triandra with High Shrubland of Acacia tumida var. pilbarensis. Acacia hamersleyensis, Dodonaea viscosa subsp. mucronata over Open Hummock Grassland of Triodia pungens

| Species | % Cover | Height | No.
|---|---|---|---
| Corymbia ferriticola | 30 | 6-12 | ACC107.0
| Amyema sp indet. | <1 |  | 1
| Acacia pruinocarpa | 1.5 | 8-10 | ACC107.0
| Acacia tumida var. pilbarensis | <1 | 3-8 | 4
| Atalaya hemiglauca | 0.5 | 5 | 4
| Ficus brachypoda | 3.5 | 3-5 | 4
| Dodonaea pachyneura | 2.5 | 2-3 | 4
| Ptilotus obovatus var. obovatus | <1 | 11.5 | 4
| Acacia hamersleyensis | 8 | 2-4 | 4
| Triodia pungens | 15 | 1 | 4
| Eremophila jucunda subsp. pulcherrima | 0.5 | 1-2 | 4
| Astroticcha hamptonii | 1 | 1-4 | 4
| Cymbopogon ambiguus | 3 | 1 | 4
| Eriachne mucronata | 2 | 0.35 | 4
| Triumfetta leptacantha | <1 | 0.4 | 4
| Themeda triandra | 35 | 0.8 | 4
| Aristida buridgeae | <1 | 0.5 | 4
| Capparis spinosa var. nummularia | <1 | 1.5 | 4
| Alternanthera nana | <1 | 0.1 | 4

524
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<th>Species</th>
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<tr>
<td>Tinospora smilacina</td>
<td>&lt;1</td>
<td>Cl</td>
</tr>
<tr>
<td>Duperreya commixta</td>
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<td>Cl</td>
</tr>
<tr>
<td>Petalostylis labicheoides</td>
<td>1</td>
<td>1-3</td>
</tr>
<tr>
<td>Dodonaea viscosa subsp. mucronata</td>
<td>2.5</td>
<td>3</td>
</tr>
<tr>
<td>Santalum lanceolatum</td>
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<td>2-3</td>
</tr>
<tr>
<td>Jasminum didymum subsp. lineare</td>
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<tr>
<td>Indigofera fractifexa</td>
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<td>0.5</td>
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<tr>
<td>Clerodendrum floribundum var. angustifolium</td>
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<td>2-3</td>
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<td>Acacia pyriform</td>
<td>&lt;1</td>
<td>1.5</td>
</tr>
<tr>
<td>Acacia maitlandii</td>
<td>&lt;1</td>
<td>0.6</td>
</tr>
<tr>
<td>Corymbia hamersleyana</td>
<td>4.5</td>
<td>6-8</td>
</tr>
<tr>
<td>Acacia adoxa var. adoxa</td>
<td>&lt;1</td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>3.5</td>
<td>6-5</td>
</tr>
<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
<td>&lt;1</td>
<td>1-2</td>
</tr>
<tr>
<td>Acacia monticola</td>
<td>&lt;1</td>
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<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
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<td>Triodia wiseana</td>
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<tr>
<td>Prostanthera albiflora</td>
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## Area C and Surrounds Study Area
### Level 2 Flora & Vegetation Survey

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<tr>
<th>Site</th>
<th>PSE 108</th>
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<tbody>
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<td><strong>Date</strong></td>
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<tr>
<td><strong>Recorder</strong></td>
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<tr>
<td><strong>Photo</strong></td>
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<tr>
<td><strong>Northing</strong></td>
<td>7464379</td>
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<tr>
<td><strong>Habitat</strong></td>
<td>Lower hill slope/hill spur</td>
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<tr>
<td><strong>Aspect</strong></td>
<td>North - moderate to gentle</td>
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<tr>
<td><strong>Soil</strong></td>
<td>Red/brown loam</td>
</tr>
<tr>
<td><strong>Rock Type</strong></td>
<td>Black Ironstone - outcrops, cobbles and pebbles</td>
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<tr>
<td><strong>% Bare Ground</strong></td>
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<tr>
<td><strong>% Logs:Twigs:Leaves</strong></td>
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<td>Very good</td>
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<tr>
<td><strong>Disturbance Type</strong></td>
<td>Fire</td>
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<tr>
<td><strong>Fire Age</strong></td>
<td>Young - moderate</td>
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### Vegetation

Low Shrubland of Acacia spondylophylla, Corchorus lasiocarpus subsp. parvus, Acacia hilliana over Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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</thead>
<tbody>
<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>8.5</td>
<td>4-8</td>
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<tr>
<td>Corymbia hamersleyana</td>
<td>1.5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
<td>0.5</td>
<td>1-2</td>
<td></td>
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<tr>
<td>Acacia spondylophylla</td>
<td>8</td>
<td>0.4</td>
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<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
<td>1.5</td>
<td>0.5</td>
<td>R55.03</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>9</td>
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<tr>
<td>Ptilotus calostachyus</td>
<td>&lt;1</td>
<td>0.4</td>
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<td>Sida cardiophylla</td>
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<td>Eriachne lanata</td>
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<tr>
<td>Acacia pruinocarpa</td>
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<td>Triodia pungens</td>
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<td>Scaevola browniana subsp. browniana</td>
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<td>Calytrix carinata</td>
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<td>0.3</td>
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<td>Gossypium robinsonii</td>
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<td>Paraneurachne muelleri</td>
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526
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<td>Grevillea berrana</td>
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<tr>
<td>Senna glutinosa subsp. pruinosa</td>
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<td>1</td>
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<tr>
<td>Acacia maitlandii</td>
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<td>Acacia pyrifolia</td>
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<tr>
<td>Site</td>
<td>PSE 109</td>
<td></td>
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<tr>
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</tr>
<tr>
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<td>Soil</td>
<td>Red/brown loam</td>
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</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - moderate outcropping, cobbles and pebbles</td>
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</tr>
<tr>
<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
<td>Very good</td>
<td></td>
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</tr>
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<td>Disturbance Type</td>
<td>Historical exploration track</td>
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<tr>
<td>Fire Age</td>
<td>Young</td>
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<tr>
<td>Vegetation</td>
<td>Low Shrubland of Acacia hilliana, Gompholobium sp. Pilbara (N.F. Norris 908), Acacia adoxa var. adoxa over Open Hummock Grassland of Triodia wiseana, Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana, Hakea chordophylla</td>
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<table>
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<tr>
<th>Species</th>
<th>% Cover</th>
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<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<td>Hakea chordophylla</td>
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<td>2-3</td>
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<td>Petalostylis labicheoides</td>
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<tr>
<td>Acacia pyriformis</td>
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<td>Eriachne mucronata</td>
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<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
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## Site PSE 110

**Date** 16/06/2010  
**Recorder** DB/SF  
**Photo** DB 53 & 54 & SF 571  
**Shape/Size** 50m X 50m  
**Datum** GDA94  
**Zone** 50K  
**Easting** 718763  
**Northing** 7465203  
**Habitat** Upper hill slope  
**Aspect** West  
**Soil** Red/brown loam  
**Rock Type** Ironstone - cobbles and pebbles with outcropping  
**% Bare Ground** 15  
**% Logs:Twigs:Leaves** <1:3:10  
**Vegetation Condition** Very good  
**Disturbance Type** Access track nearby  
**Fire Age** Old  

### Vegetation

Closed hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia wiseana with Low Shrubland of Acacia hilliana, with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia

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**APPENDIX 12**

Total flora list recorded in the Southern Survey Area; assessed by Onshore Environmental November 2009, February 2010 & June 2010.

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<td><em>Solanum</em> horridum</td>
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<td></td>
<td><em>Solanum</em> lasiophyllum</td>
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<td></td>
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<td><em>Hybanthus</em> aurantiacus</td>
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APPENDIX 13

Site sheets summarising raw data for the 97 quadrats assessed within the Southern Survey Area; assessed by Onshore Environmental November 2009, February 2010 & June 2010.
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<td>Shape/Size</td>
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<tr>
<td>Northing</td>
<td>7454465</td>
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<tr>
<td>Habitat</td>
<td>Hill crest</td>
</tr>
<tr>
<td>Aspect</td>
<td>East (gentle)</td>
</tr>
<tr>
<td>Soil</td>
<td>Red/brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone (black), scattered outcrops - pebbles &amp; cobbles common</td>
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<tr>
<td>% Bare Ground</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
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<td>Excellent</td>
</tr>
<tr>
<td>Disturbance Type</td>
<td>Mosaic recent &amp; old burnt</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Young - old patchy burn</td>
</tr>
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<td>Vegetation</td>
<td>Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia and Corymbia hamersleyana over High Open Shrubland of Hakea chordophylla and Petalostylis labicheoides over Low Open Shrubland of Acacia hilliana</td>
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<thead>
<tr>
<th>Species</th>
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<td>3-7</td>
<td></td>
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<td>Corymbia hamersleyana</td>
<td>3.5</td>
<td>3-5</td>
<td></td>
</tr>
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<td>Hakea chordophylla</td>
<td>1.5</td>
<td>2-5</td>
<td></td>
</tr>
<tr>
<td>Petalostylis labicheoides</td>
<td>3.5</td>
<td>2-3</td>
<td></td>
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<tr>
<td>Indigofera monophylla</td>
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<td>&lt;0.4</td>
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<td>&lt;0.4</td>
<td></td>
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<tr>
<td>Acacia hilliana</td>
<td>8</td>
<td>&lt;0.5-1</td>
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<td>&lt;0.5</td>
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<td>&lt;0.5</td>
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<td>&lt;0.5</td>
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<td>Acacia pyrifolia</td>
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<td>0.5-2</td>
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<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<tr>
<td>Acacia adoxa var adoxa</td>
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<td>Diplatia grandibractea</td>
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<td>Cl</td>
<td>01.02</td>
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<tr>
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### Site OR 2

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<td>South</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - black-orange, outcrops/cliff lines/scree</td>
</tr>
<tr>
<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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**Vegetation**

Hummock Grassland of Triodia pungens and Triodia wiseana with High Shrubland of Petalostylis labicheoides with Low Open Woodland of Eucalyptus leucophloia and Corymbia ferriticola and Very Open Mallee of Eucalyptus pilbarensis

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<tr>
<td>Eriachne mucronata</td>
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<td>&lt;0.5</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>0.5-1</td>
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<tr>
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<tr>
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Ptilotus obovatus  

<1 0.5-1
### Site OR 3

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<tr>
<td>Soil</td>
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Hummock Grassland of Triodia pungens with Open Shrubland of Petalostylis labicheoides and Acacia hamersleyensis with Low Open Woodland of Eucalyptus leucophloia and Corymbia ferriticola

### Vegetation

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<th>Height</th>
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<td>Triodia pungens</td>
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<td>3-5</td>
<td></td>
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<td>Corymbia ferriticola</td>
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<td></td>
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<tr>
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<tr>
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<td>Acacia bivenosa</td>
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### Vegetation

Low Open Woodland of Eucalyptus leucophloia and Hakea chordophylla over Very Open Mallee of Eucalyptus gamophylla and Eucalyptus kingsmillii over Very Open Hummock Grassland of Triodia wiseana with Scattered Shrubs of Senna ferraria, Petalostylis labicheoides and Acacia pyrifolia

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**Vegetation**

Hummock Grassland of Triodia pungens with High Shrubland of Acacia hamersleyensis, Petalostylis labiceoides and Dodonaea petiolaris with Low Open Woodland of Eucalyptus leucophloia and Very Open Mallee of Eucalyptus kingsmillii

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Tussock Grassland of Themeda triandra with Low Open Woodland of Corymbia hamersleyana over Open Shrubland of Gossypium robinsonii and Acacia hamersleyensis and Open Hummock Grassland of Triodia pungens

### Vegetation

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Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia and Very Open Mallee of Eucalyptus gamophylla and Eucalyptus kingsmillii over High Open Shrubland of Petalostylis labicheoides

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### Area C and Surrounds Study Area

#### Level 2 Flora & Vegetation Survey

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#### Vegetation

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### Area C and Surrounds Study Area
### Level 2 Flora & Vegetation Survey

**Site**  | **OR 11**  
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**Recorder**  | MOC  
**Photo**  | 0959-0958  
**Shape/Size**  | 50m X 50m  
**Datum**  | GDA94  
**Zone**  | 50K  
**Easting**  | 706802  
**Northing**  | 7456165  
**Habitat**  | Gorge  
**Aspect**  | East  
**Soil**  | Skeletal  
**Rock Type**  | Gravel with some cobbles  
**% Bare Ground**  | 10  
**% Logs:Twigs:Leaves**  | 2:2:2  
**Vegetation Condition**  | Excellent  
**Disturbance Type**  | Nil  
**Fire Age**  | Young & Old patchy  

**Vegetation**  
Low Woodland of Eucalyptus leucophloia, Acacia pruinocarpa and Corymbia ferriticola over High Shrubland of Stylobasium spathulatum, Gossypium robinsonii and Petalostylis labicheoides over Shrubland of Abutilon dioicum and Eremophila tietkensii over Open Tussock Grassland of Cymbopogon ambiguus, Themeda triandra and Aristida burbidgeae

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<td>Capparis lasiantha</td>
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<td>Northing</td>
<td>7456389</td>
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<tr>
<td>Habitat</td>
<td>Hill slope</td>
<td></td>
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<tr>
<td>Aspect</td>
<td>South</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown loam</td>
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<td>Vegetation Condition</td>
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<tr>
<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
<td>Young</td>
<td></td>
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<tr>
<td>Vegetation</td>
<td>Open Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia over Scattered Mallee of Eucalyptus kingsmillii</td>
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<tr>
<td>Eucalyptus kingsmillii</td>
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<td>1-2</td>
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<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>Triodia wiseana</td>
<td>10</td>
<td>0.4</td>
<td></td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
<td>&lt;1</td>
<td>0.3</td>
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<tr>
<td>Ptilotus calostachybus</td>
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<td>Goodenia triodiophila</td>
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<td>Mirbelia viminalis</td>
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<tr>
<td>Senna notabilis</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Dodonaea petiolaris</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
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<td>0.4</td>
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<tr>
<td>Senna ferraria</td>
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<td>0.4</td>
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<td>Petalostylis labicheoides</td>
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<td>0.5</td>
<td></td>
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<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
<td>0.2</td>
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<td>Corchorus lasiocarpus ssp. parvus</td>
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<tr>
<td>Aspect</td>
<td>North</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soil</td>
<td>Fine gravel, clay loam</td>
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<td></td>
</tr>
<tr>
<td>Rock Type</td>
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<tr>
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<td>Vegetation Condition</td>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
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Low Open Woodland of Corymbia hamersleyana over Shrubland of Acacia tumida var. pilbarensis over Very Open Hummock Grassland of Triodia wiseana

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<td>Corymbia hamersleyana</td>
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<td>2-6</td>
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<tr>
<td>Eriachne mucronata</td>
<td>1</td>
<td>0.3</td>
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<tr>
<td>Themeda triandra</td>
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<td>0.6</td>
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<tr>
<td>Petalostylis labicheoides</td>
<td>1</td>
<td>0.5-2</td>
<td></td>
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<tr>
<td>Acacia tumida var. pilbarensis</td>
<td>15</td>
<td>1-3</td>
<td></td>
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<tr>
<td>Acacia monticola</td>
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<td>0.5</td>
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<tr>
<td>Eriachne lanata</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Indogfera monophylla</td>
<td>&lt;1</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Gossypium robinsonii</td>
<td>0.5</td>
<td>0.5-2</td>
<td></td>
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<tr>
<td>Hybanthus aurantiacus</td>
<td>&lt;1</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
<td>0.5</td>
<td>1-2</td>
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<tr>
<td>Acacia maitlandii</td>
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<tr>
<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Acacia pyrifolia</td>
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<tr>
<td>Rulingia luteiflora</td>
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<td>Triodia pungens</td>
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<tr>
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Area C and Surrounds Study Area  
Level 2 Flora & Vegetation Survey

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<td>Northing</td>
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<td>Habitat</td>
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<td>Aspect</td>
<td>South west</td>
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<tr>
<td>Fire Age</td>
<td>Recent</td>
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Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia hamersleyana over Very Open Mallee of Eucalyptus gamophylla

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<td>Amphipogon sericeus</td>
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<td>0.3</td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Senna notabilis</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Indogfera monophylla</td>
<td>&lt;1</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Acacia pruinocarpa</td>
<td>&lt;1</td>
<td>0.5</td>
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<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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<td>0.5</td>
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</tr>
<tr>
<td>Grevillea wickhamii subsp. hispidula</td>
<td>&lt;1</td>
<td>0.5</td>
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<tr>
<td>Acacia pyriformia</td>
<td>&lt;1</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>Corymbia hamersleyana</td>
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<td>Eucalyptus gamophylla</td>
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<td>Sida cf. cardiophylla</td>
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<td>7455615</td>
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<td>Habitat</td>
<td>Hill slope - spur crest, mid slope</td>
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<td>North</td>
</tr>
<tr>
<td>Soil</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Fire recent, access track nearby</td>
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<td>Young</td>
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### Vegetation Table

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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Hummock Grassland of Triodia wiseana with Open Heath of Acacia monticola, Acacia maitlandii with Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana</td>
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Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana, Corymbia deserticola subsp. deserticola over Very Open Mallee of Eucalyptus gamophylla over Open Shrubland of Acacia hamersleyensis over Low Open Shrubland of Acacia hilliana

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### Habitat Information

- **Habitat**: Hill slope - mid - gentle to moderate
- **Aspect**: North east
- **Soil**: Skeletal brown loam
- **Rock Type**: Ironstone - black
- **% Bare Ground**: 25
- **% Logs:Twigs:Leaves**: 0:01:03
- **Vegetation Condition**: Excellent
- **Disturbance Type**: Nil
- **Fire Age**: Very old

### Vegetation

Hummock Grassland of Triodia wiseana with Low Shrubland of Acacia hilliana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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Open Scrub of Acacia monticola, Petalostylis labicheoides, Grevillea wickhamii subsp. hispidula with Low Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Very Open Hummock Grassland of Triodia pungens, Triodia wiseana over Very Open Tussock Grassland of Themeda triandra, Eriachne mucronata

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**Vegetation**

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<tr>
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<td>1-2</td>
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<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Acacia hilliana</td>
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<td>0.3</td>
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<td>Scaevola browniana subsp. browniana</td>
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Vegetation:

Open Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Mirbelia viminalis

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<tr>
<td>Acacia hilliana</td>
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<tr>
<td>Acacia maitlandii</td>
<td>&lt;1</td>
<td>0.4</td>
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<tr>
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<td>Eriachne lanata</td>
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<td>Aspect</td>
<td>South</td>
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<tr>
<td>Soil</td>
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<td>Fire Age</td>
<td>Young/Moderate</td>
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<td>Low Open Woodland of <em>Eucalyptus leucophloia</em> subsp. <em>leucophloia</em>, <em>Corymbia hamersleyana</em> over Open Hummock Grassland of <em>Triodia wiseana</em>, <em>Triodia sp.</em> Shovelanna Hill (S. van Leeuwen 3835)</td>
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### Vegetation

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<td><em>Corymbia hamersleyana</em></td>
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<tr>
<td><em>Acacia pruinocarpa</em></td>
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<td>2</td>
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<td><em>Corchorus lasiocarpus</em> subsp. <em>parvus</em></td>
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<td><em>Amphipogon sericeus</em></td>
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<td>0.5</td>
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<tr>
<td><em>Eriachne mucronata</em></td>
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<td>0.4</td>
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<tr>
<td><em>Goodenia stobbsiana</em></td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td><em>Sida sp. Golden calyces glabrous</em> (H.N. Foote 32)</td>
<td>&lt;1</td>
<td>0.4</td>
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</tr>
<tr>
<td><em>Ptilotus calostachyus</em></td>
<td>&lt;1</td>
<td>0.5</td>
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</tr>
<tr>
<td><em>Eremophila latrobei</em> subsp. <em>latrobei</em></td>
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<td><em>Gompholobium sp. Pilbara</em> (N.F. Norris 908)</td>
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<tr>
<td><em>Acacia maitlandii</em></td>
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### Site OR 26

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<tr>
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#### Vegetation

Low Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Shrubland of Acacia adoxa var. adoxa, Mirbelia viminalis, Gompholobium sp. Pilbara (N.F. Norris 908) over Open Hummock grassland of Triodia wiseana

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<td>Aspect</td>
<td>South</td>
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<td>Access tracks - common in area</td>
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**Vegetation**

Tussock Grassland of *Triodia* sp. Shovelanna Hill (S. van Leeuwen 3835) with High Shrubland of *Acacia bivenosa*, *Acacia inaequilatera* with Very Open Mallee of *Eucalyptus gamophylla* with Scattered Low Trees of *Eucalyptus leucophloia subsp. leucophloia*.

### Vegetation Species

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<td><em>Keraudrenia velutina subsp. elliptica C.F.Wilkins</em></td>
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<td>Acacia pruinocarpa</td>
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**Area C and Surrounds Study Area**  
**Level 2 Flora & Vegetation Survey**

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<td>Disturbance Type</td>
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**Vegetation**

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**Photo** 7347  
**Shape/Size** 50m X 50m  
**Datum** GDA94  
**Zone** 50K  
**Easting** 705649  
**Northing** 7453321  
**Habitat** Foothill, spurs - coming off main range, crest and slopes of spur  
**Aspect** West/ East  
**Soil** Brown loam  
**Rock Type** Mixed chert/ironstone/shales sandstone/quartz - cobbles and pebbles  
**% Bare Ground** 20  
**% Logs:Twigs:Leaves** <1:1:1  
**Vegetation Condition** Excellent  
**Disturbance Type** Nil  
**Fire Age** Old  
**Vegetation** Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia deserticola, Corymbia hamersleyana over High Open Shrubland of Acacia inaequilatera, Hakea chordophylla

### Species

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Acacia catenulata subsp. occidentalis  <1  1-2  SFW31.01
Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site OR 32

Date 17/02/2010
Recorder DB
Photo DB 55
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 704000
Northing 7453200
Habitat Floodplain
Aspect South east
Soil Red/brown loam
Rock Type Ironstone
% Bare Ground 45
% Logs:Twigs:Leaves 5:05:10
Vegetation Condition Good
Disturbance Type Grazing, frequent fire, occasional exploration tracks
Fire Age Moderate

Vegetation
Low Woodland of Acacia aneura var. tenuis over Shrubland of Acacia aneura var. tenuis, Eremophila forrestii ssp. forrestii and Ptilotus obovatus over Open Tussock Grassland of Aristida obscura, Enneapogon polyphyllus and Aristida contorta

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#### Vegetation Condition

Low woodland of Eucalyptus leucophloia subsp. leucophloia over Open Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Open Shrubland of Acacia inaequilatera

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<td><strong>Habitat</strong></td>
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<td>South</td>
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<tr>
<td><strong>Soil</strong></td>
<td>Skeletal red/brown loam</td>
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<tr>
<td><strong>Rock Type</strong></td>
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<td><strong>Disturbance Type</strong></td>
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**Vegetation**

Hummock Grassland of *Triodia wiseana* with Low Woodland of *Eucalyptus leucophloia subsp. leucophloia* over Open Shrubland of *Acacia hamersleyensis*

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<tr>
<td><em>Duperreya commixta</em></td>
<td>&lt;1</td>
<td>Cl</td>
<td></td>
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<tr>
<td><em>Hakea chordophylla</em></td>
<td>&lt;1</td>
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<tr>
<td><em>Eremophila jucunda subsp. pulcherrima</em></td>
<td>1.5</td>
<td>0.5-1.5</td>
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<td><em>Acacia dictyophleba</em></td>
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<td>0.5-1</td>
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<td><em>Mirbelia viminalis</em></td>
<td>&lt;1</td>
<td>0.5-1</td>
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<tr>
<td><em>Dodonaea viscosa subsp. mucronata</em></td>
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<td>1-2</td>
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<tr>
<td><em>Amphipogon sericeus</em></td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
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<tr>
<td><em>Acacia pyrifolia</em></td>
<td>0.5</td>
<td>1-2</td>
<td></td>
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<tr>
<td><em>Solanum lasiophyllum</em></td>
<td>&lt;1</td>
<td>0.5</td>
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</tr>
<tr>
<td><em>Cymbopogon ambiguus</em></td>
<td>&lt;1</td>
<td>0.5-1</td>
<td></td>
</tr>
<tr>
<td><em>Acacia aneura var. tenius</em></td>
<td>&lt;1</td>
<td>0.5</td>
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<tr>
<td><em>Psydrax latifolia</em></td>
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**Site**  
OR 40

### Date
17/02/2010

### Recorder
JB

### Photo
7361

### Shape/Size
50m X 50m

### Datum
GDA94

### Zone
50K

### Easting
706525

### Northing
7453697

### Habitat
Hill slopes + minor creek lines - mid-lower slopes

### Aspect
South

### Soil
Skeletal red/brown loam

### Rock Type
Ironstone - black (+hot!)

### % Bare Ground
50

### % Logs:Twigs:Leaves
06:01.5

### Vegetation Condition
Very good

### Disturbance Type
Fire

### Fire Age
Young

### Vegetation

<table>
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<th>Species</th>
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<th>No.</th>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<td>1-10</td>
<td></td>
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<tr>
<td>Triodia pungens</td>
<td>30</td>
<td>0.4</td>
<td>SFW21.05</td>
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<td>Eriachne mucronata</td>
<td>3.5</td>
<td>0.4</td>
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<tr>
<td>Senna glutinosa subsp. glutinosa</td>
<td>1.5</td>
<td>1-2</td>
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<tr>
<td>Goodenia stobbsiana</td>
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<td></td>
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<tr>
<td>Sida sp. Shovelanna Hill (S. van Leeuwen 3842)</td>
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<td>0.35</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>0.5-1</td>
<td></td>
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<tr>
<td>Acacia hamersleyensis</td>
<td>&lt;1</td>
<td>0.5-1</td>
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<td>Sida sp. Golden calyces glabrous (H.N. Foote 32)</td>
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<td>Acacia pruinocarpa</td>
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<td>Site</td>
<td>OR 41</td>
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<tr>
<td>Northing</td>
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<td>Habitat</td>
<td>Minor drainage line</td>
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<tr>
<td>Aspect</td>
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<tr>
<td>Soil</td>
<td>Skeletal - red/brown, some sand</td>
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<tr>
<td>Rock Type</td>
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<td>Fire Age</td>
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Open Hummock Grassland of Triodia pungens, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia hamersleyana over High Open Shrubland of Acacia inaequilatera, Petalostylis labicheoides, Acacia steedmanii subsp. borealis

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<th>Species</th>
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<td>Corymbia hamersleyana</td>
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<td>2-10</td>
<td></td>
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<tr>
<td>Petalostylis labicheoides</td>
<td>5</td>
<td>1-2.5</td>
<td></td>
</tr>
<tr>
<td>Acacia inaequilatera</td>
<td>2</td>
<td>2-3</td>
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</tr>
<tr>
<td>Scaevola parvifolia subsp. pilbarae</td>
<td>0.5</td>
<td>0.3</td>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Triodia pungens</td>
<td>10</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>15</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Themeda triandra</td>
<td>2</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.5</td>
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<tr>
<td>Hakea lorea subsp. lorea</td>
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<td>2-3</td>
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<tr>
<td>Duperreya commixta</td>
<td>&lt;1</td>
<td>Cl</td>
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</tr>
<tr>
<td>Santalam lanceolatum</td>
<td>&lt;1</td>
<td>0.8</td>
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<td>Acacia prinocarpa</td>
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<td>2-4</td>
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<td>Acacia maitlandii</td>
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<td>0.5-1</td>
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<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Acacia steedmanii subsp. borealis</td>
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<td>2-3</td>
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<tr>
<td>Acacia tenuissima</td>
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**Site** OR 42

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<tr>
<td>Habitat</td>
<td>Low hill spur</td>
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<tr>
<td>Aspect</td>
<td>South</td>
</tr>
<tr>
<td>Soil</td>
<td>Skeletal - red/brown</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - pebbles - some gravel</td>
</tr>
<tr>
<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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<td>Disturbance Type</td>
<td>None evident</td>
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<tr>
<td>Fire Age</td>
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**Vegetation**

- Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia hamersleyana over Open Shrubland of Acacia inaequilatera

### Species

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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</thead>
<tbody>
<tr>
<td>Corymbia hamersleyana</td>
<td>10</td>
<td>4-6</td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>0.5</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>Acacia inaequilatera</td>
<td>3</td>
<td>1-2.8</td>
<td></td>
</tr>
<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>30</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Acacia aneura</td>
<td>&lt;1</td>
<td>1-2</td>
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</tr>
<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>Acacia tenuissima</td>
<td>&lt;1</td>
<td>0.5</td>
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<tr>
<td>Triodia pungens</td>
<td>&lt;1</td>
<td>0.5</td>
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</tr>
<tr>
<td>Senna glutinosa subsp. pruinosa</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
<td>0.4</td>
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</tr>
<tr>
<td>Amphipogon sericeus</td>
<td>&lt;1</td>
<td>0.4</td>
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</table>
## Area C and Surrounds Study Area
### Level 2 Flora & Vegetation Survey

<table>
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<tr>
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<tbody>
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<tr>
<td>Northing</td>
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<tr>
<td>Habitat</td>
<td>Minor drainage line - outwash from gorge and gully</td>
</tr>
<tr>
<td>Aspect</td>
<td>South</td>
</tr>
<tr>
<td>Soil</td>
<td>Brown clay loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone</td>
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<tr>
<td>% Bare Ground</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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</tr>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
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#### Vegetation

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<td>Corymbia hamersleyana</td>
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<td>Gossypium robinsonii</td>
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<td>Enneapogon polyphillus</td>
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<td>Eriachne mucronata</td>
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<td>Cymbopogon ambiguus</td>
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<td>Rank</td>
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<td>Goodenia stobbsiana</td>
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<td>Acacia pyrifolia</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<td>Northing</td>
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<td>Aspect</td>
<td>East</td>
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<tr>
<td>Soil</td>
<td>Skeletal red/brown clay loam</td>
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<tr>
<td>Rock Type</td>
<td>Ironstone</td>
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<tr>
<td>% Bare Ground</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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</tr>
<tr>
<td>Disturbance Type</td>
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</tr>
<tr>
<td>Fire Age</td>
<td>Young</td>
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#### Vegetation
- Hummock Grassland of Triodia wiseana with Scattered Low Tress of Eucalyptus leucophloia subsp. leucophloia

<table>
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<tr>
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<th>% Cover</th>
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<tbody>
<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<td></td>
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<tr>
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<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>1</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Hakea chordophylla</td>
<td>&lt;1</td>
<td>&gt;2</td>
<td></td>
</tr>
<tr>
<td>Senna glutinos subsp. glutinosana</td>
<td>&lt;1</td>
<td>1.8</td>
<td></td>
</tr>
<tr>
<td>Cymbopogon ambiguus</td>
<td>&lt;1</td>
<td>&lt;1.2</td>
<td></td>
</tr>
<tr>
<td>Sida sp. Golden calyces glabrous (H.N. Foote 32)</td>
<td>&lt;1</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Paraneurachne muelleri</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Eremophila jucunda subsp. pulcherrima</td>
<td>&lt;1</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<td>Northing</td>
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<tr>
<td>Habitat</td>
<td>Low hill slope/Footslope</td>
</tr>
<tr>
<td>Aspect</td>
<td>South - South East</td>
</tr>
<tr>
<td>Soil</td>
<td>Orange/brown loam</td>
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<tr>
<td>Rock Type</td>
<td>Ironstone - cobbles and pebbles</td>
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<tr>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Access tracks</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Young - moderate</td>
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**Vegetation**

Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Indigofera monophylla, Corchorus lasiocarpus subsp. parvus, Acacia kempeana

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<td>Corymbia hamersleyana</td>
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<td>4-5</td>
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<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
<td>1</td>
<td>4</td>
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<tr>
<td>Goodenia stobbsiana</td>
<td>0.25</td>
<td>0.2</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>20</td>
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<tr>
<td>Indigofera monophylla</td>
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</tr>
<tr>
<td>Corchorus lasiocarpus subsp. parvus</td>
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<td>0.3</td>
<td>R55.03</td>
</tr>
<tr>
<td>Triodia pungens</td>
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<td>0.3</td>
<td>R45.01</td>
</tr>
<tr>
<td>Triodia wiseana</td>
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<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
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<td>0.3</td>
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<tr>
<td>Amphipogon sericeus</td>
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<td>0.2</td>
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<td>Eucalyptus gamophylla</td>
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<td>2-3</td>
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<tr>
<td>Sida arenicola</td>
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<td>Themeda triandra</td>
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<td>0.5-1.5</td>
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<td>Eremophila latrobei subsp. latrobei</td>
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<td>0.5-1</td>
<td></td>
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<tr>
<td>Sida cardiophylla</td>
<td>&lt;1</td>
<td>0.5</td>
<td>R45.03</td>
</tr>
<tr>
<td>Hybanthus aurantiacus</td>
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<td>0.6</td>
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<td>Acacia adoza var. adoza</td>
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<td>0.25</td>
<td></td>
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<tr>
<td>Petalostylis labicheoides</td>
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<td>Cover</td>
<td>Height</td>
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<td>Acacia kempeana</td>
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<td>0.5</td>
<td>R45.02</td>
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<tr>
<td>Halgania gustafsenii var. gustafsenii</td>
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<tr>
<td>Scaevola browniana subsp. browniana</td>
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<tr>
<td>Rulingia luteiflora</td>
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<td>Site</td>
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<td>Aspect</td>
<td>South East</td>
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<tr>
<td>Soil</td>
<td>Orange/brown loam</td>
<td></td>
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<tr>
<td>Rock Type</td>
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<td>Disturbance Type</td>
<td>Access tracks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Age</td>
<td>Young - patchy</td>
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**Vegetation**

Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia pungens with Low Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over Low Shrubland of Acacia maitlandii, Indigofera monophylla, Acacia hilliana

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<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<td>8</td>
<td></td>
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<td>Corymbia hamersleyana</td>
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<td>6-8</td>
<td></td>
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<tr>
<td>Acacia maitlandii</td>
<td>4.5</td>
<td>0.5-1.5</td>
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</tr>
<tr>
<td>Halgania gustafsenii var. gustafsenii</td>
<td>1</td>
<td>0.4</td>
<td>R45.04</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<tr>
<td>Triodia pungens</td>
<td>18</td>
<td>0.4</td>
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</tr>
<tr>
<td>Indigofera monophylla</td>
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</tr>
<tr>
<td>Scaevola browniana subsp. browniana</td>
<td>&lt;1</td>
<td>0.3</td>
<td>ACC90.01</td>
</tr>
<tr>
<td>Eremophila latrobei subsp. latrobei</td>
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<td>0.5-1</td>
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<tr>
<td>Acacia hilliana</td>
<td>2.5</td>
<td>&lt;0.5</td>
<td></td>
</tr>
<tr>
<td>Acacia adoxa var. adoxa</td>
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<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Eriachne mucronata</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
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<tr>
<td>Acacia sibirica</td>
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<tr>
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<td>Senna glaucifolia</td>
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<td>0.5</td>
<td>R46.02</td>
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<tr>
<td>Hakea chordophylla</td>
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<td>4</td>
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<td>Acacia pruinocarpa</td>
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<td>1-2</td>
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<tr>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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</tr>
<tr>
<td>Duperreya commixa</td>
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<td>Cl</td>
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Acacia pyrifolia  <1  0.6
### Site OR 47

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<tr>
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<td>Rock Type</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Cattle grazing and extensive exploration surrounding</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Moderate</td>
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<tr>
<td>Vegetation</td>
<td>Closed Tussock Grassland of Themeda triandra with Low Open Forest of Acacia aneura hybrid with Open Woodland of Eucalyptus xerothermica</td>
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</table>

### Vegetation

<table>
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<tr>
<th>Species</th>
<th>% Cover</th>
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<tr>
<td>Acacia aneura hybrid</td>
<td>&gt;40</td>
<td>5-10</td>
<td>R47.01</td>
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<td>Themeda triandra</td>
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<td>Malvastrum americanum</td>
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<td></td>
</tr>
<tr>
<td>Ptilotus obovatus var. obovatus</td>
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<td>0.5</td>
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<tr>
<td>Solanum phlomoides</td>
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<td>1.3</td>
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<tr>
<td>Abutilon fraseri</td>
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<td>Jasminum didymum subsp. lineare</td>
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<tr>
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<td>Duperreya commixta</td>
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<td>Pterocaulon sphaeranthoides</td>
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<td>1.6</td>
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<tr>
<td>Chrysopogon fallax</td>
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<td>1.2</td>
<td></td>
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<tr>
<td>Senna artemesioidei subsp. helmsii x oligophylla</td>
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<tr>
<td>Paraneurachne muelleri</td>
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<td>0.5</td>
<td>R47.09</td>
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<td>Cleome viscosa</td>
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<td>Species</td>
<td>Density</td>
<td>Cover</td>
<td>Notes</td>
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<td>--------</td>
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<td>R47.10</td>
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<td>Boerhavia coccinea</td>
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<td>Mirbelia viminalis</td>
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<td>Amphipogon sericeus</td>
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### Site OR 49

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<tr>
<td>Aspect</td>
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<td>Soil</td>
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**Vegetation**

Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hammerleyana over Low Open Shrubland of Acacia hamersleyensis, Acacia adoxa var. adoxa, Gompholobium sp. Pilbara (N.F. Norris 908)

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<td>4</td>
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<tr>
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<td>0.5</td>
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<tr>
<td>Triodia wiseana</td>
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<td>Acacia maitlandii</td>
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<td>Cymbopogon ambiguus</td>
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<tr>
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Date | 17/06/2010
Recorder | GH
Photo | 8014
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 704330
Northing | 7457328
Habitat | Narrow gorge with drainage line (low cliff lines)
Aspect | North - South
Soil | Skeletal brown loam
Rock Type | Ironstone/BIF - cliff lines, boulders and cobbles
% Bare Ground | 25
% Logs:Twigs:Leaves | 2.5:6.5:10
Vegetation Condition | Excellent
Disturbance Type | None evident
Fire Age | Very old

Vegetation

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<tr>
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<tr>
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<tr>
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<td>Density</td>
<td>Height</td>
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<td>Acacia hamersleyensis</td>
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Site OR 52

Date 17/06/2010
Recorder DB/SF
Photo DB 61 & SF 588
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 705731
Northing 7457501
Habitat Moderate hill slope/ breakaway slope
Aspect East
Soil Red/brown loam
Rock Type Ironstone - outcropping, cobbles and pebbles
% Bare Ground 70
% Logs:Twigs:Leaves <1:3:4
Vegetation Condition Very good
Disturbance Type None evident
Fire Age Moderate hill slope/ breakaway slope

Vegetation
Hummock Grassland of Triodia wiseana, Triodia pungens
with Low Open Woodland of Eucalyptus leucophloia
subsp. leucophloia, Corymbia hamersleyana over Open
Shrubland of Acacia hamersleyensis

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<thead>
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<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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</thead>
<tbody>
<tr>
<td>Eucalyptus leucophloia subsp. leucophloia</td>
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<tr>
<td>Corymbia hamersleyana</td>
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<tr>
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<td>Acacia hamersleyensis</td>
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<tr>
<td>Acacia maitlandii</td>
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<td>Senna venusta</td>
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<tr>
<td>Gompholobium sp. Pilbara (N.F. Norris 908)</td>
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<td>Acacia adoxa var. adoxa</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<tr>
<td>Aspect</td>
<td>Northwest</td>
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<tr>
<td>Soil</td>
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<tr>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
<td>Young</td>
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<td>Vegetation</td>
<td>Open Hummock Grassland of Triodia wiseana, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia over Low Open Shrubland of Gompholobium sp. Pilbara (N.F. Norris 908), Acacia adoxa var. adoxa, Acacia hilliana, Acacia maitlandii</td>
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<thead>
<tr>
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<td>Acacia adoxa var. adoxa</td>
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<td>0.3</td>
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<td>0.5</td>
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<tr>
<td>Acacia maitlandii</td>
<td>2</td>
<td>0.8</td>
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<tr>
<td>Santalum lanceolatum</td>
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<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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<td>Amphigopogn sericeus</td>
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<td>0.2</td>
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<tr>
<td>Hakea chordophylla</td>
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<tr>
<td>Acacia pyrifolia</td>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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<td>0.6</td>
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<tr>
<td>Hibiscus sturtii var. campylochlamys</td>
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<tr>
<td>Senna ferraria</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td><strong>Recorder</strong></td>
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<td><strong>Shape/Size</strong></td>
</tr>
<tr>
<td><strong>Datum</strong></td>
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<tr>
<td><strong>Zone</strong></td>
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<td><strong>Easting</strong></td>
</tr>
<tr>
<td><strong>Northing</strong></td>
</tr>
<tr>
<td><strong>Habitat</strong></td>
</tr>
<tr>
<td><strong>Aspect</strong></td>
</tr>
<tr>
<td><strong>Soil</strong></td>
</tr>
<tr>
<td><strong>Rock Type</strong></td>
</tr>
<tr>
<td><strong>% Bare Ground</strong></td>
</tr>
<tr>
<td><strong>% Logs:Twigs:Leaves</strong></td>
</tr>
<tr>
<td><strong>Vegetation Condition</strong></td>
</tr>
<tr>
<td><strong>Disturbance Type</strong></td>
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<tr>
<td><strong>Fire Age</strong></td>
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**Vegetation**
Hummock Grassland of Triodia pungens, Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Shrubland of Indigofera monophylla, Corchorus lasiocarpus subsp. parvus, Acacia hilliana, Acacia maitlandii with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia, Hakea chordophylla

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<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<td>6-8</td>
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<td>Hakea chordophylla</td>
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<td>4-5</td>
<td>Site</td>
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<tr>
<td>Acacia pyriformia</td>
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<tr>
<td>Acacia maitlandii</td>
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<tr>
<td>Acacia hilliana</td>
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<td>&lt;0.5</td>
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<td>Triodia pungens</td>
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<tr>
<td>Sida arenicola</td>
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<td>Amphipogon sericeus</td>
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<td>Senna glutinosa subsp. x luerssenii</td>
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---|---
**Date** | 18/06/2010
**Recorder** | GH
**Photo** | 8023
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 703791
**Northing** | 7458673
**Habitat** | Medium drainage line amongst rocky hills (incised 3-5m)
**Aspect** | West - East
**Soil** | Riverine gravels in drainage line/ Red/brown loam on levee banks
**Rock Type** | Marra Mamba Ironstone; Small cliff sections, cobbles and pebbles, riverine gravels
**% Bare Ground** | 35
**Logs:Twigs:Leaves** | 0.5:3:6
**Vegetation Condition** | Very good
**Disturbance Type** | Fire
**Fire Age** | Moderate
**Vegetation** | Tussock Grassland of *Themeda triandra*, *Eriachne tenuiculmis* with High Shrubland of *Gossypium robinsonii*, *Petalostylis labicheoides*, *Rulingia luteiflora* over Open Hummock Grassland of *Triodia wiseana*, *Triodia pungens* with Low Open Woodland of *Eucalyptus xerothermica*

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<td>Fire Age</td>
<td>Moderate - Old - Patchy</td>
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**Vegetation**

Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia wiseana with High Shrubland of Acacia atkinsiana with Very Open Mallee of Eucalyptus gamophylla with Scattered Low Trees of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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<td>Species</td>
<td>Abundance</td>
<td>Density</td>
<td>Code</td>
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![Image of the study area](image-url)
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---|---
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Recorder | GH
Photo | 8030
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 704692
Northing | 7459236
Habitat | Drainage line (moderate) with stony valley sides and levee banks/ Incised channel
Aspect | North west - South east
Soil | Brown - Orange/brown loam
Rock Type | Black Ironstone - boulders, cobbles, pebbles and riverine gravel
% Bare Ground | 20
% Logs:Twigs:Leaves | 04:05.5
Vegetation Condition | Very good
Disturbance Type | Fire
Fire Age | Young - Moderate
Vegetation | Open Scrub of Acacia tumida var. pilbarensis, Petalostylis labicheoides, Gossypium robinsonii over Tussock Grassland of Themeda triandra, Eriachne tenuiculmis, Cymbopogon sp. indet. with Low Woodland of Corymbia hamersleyana, Eucalyptus xerothermica

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<tr>
<td>Soil</td>
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<td>Fire Age</td>
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**Vegetation**

Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Open Shrubland of Acacia adoxa var. adoxa, Acacia hilliana, Indigofera monophylla

### Vegetation Table

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**Vegetation**

Open Scrub of *Acacia tumida* var. *pilbarensis*, *Petalostylis labicheoides*, *Gossypium robinsonii* with Low Woodland of *Corymbia hamersleyana*, *Corymbia ferritica* over Open Tussock Grassland of *Threma triandra*, *Eriachne tenuiculmis* over Open Hummock Grassland of *Triodia pungens*

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**Vegetation**

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<tr>
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<td>Fire Age</td>
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<td>Open Hummock Grassland of Triodia wiseana with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia</td>
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<tr>
<td>Ptilotus calostachyus</td>
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<tr>
<td>Solanum lasiophyllum</td>
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### Habitat Information

- Hummock Grassland of Triodia wiseana, Triodia sp.
- Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana over Low Open Shrubland of Acacia adoxa var. adoxa, Mirbelia viminalis, Gompholobium sp. Pilbara (N.F. Norris 908)

### Vegetation

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<td>Corymbia hamersleyana</td>
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<td>Acacia manticola</td>
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<td>Acacia adoxa var. adoxa</td>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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<tr>
<td>Eremophila jucunda subsp. pulcherrima</td>
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Site Data

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Habitat
- Drainage line - medium - broadly incised

Aspect
- N/A

Soil
- Brown clay-loam

Rock Type
- Ironstone - pebbly ironstone scree

% Bare Ground
- 35

% Logs:Twigs:Leaves
- 2:05:08

Vegetation Condition
- Very good

Disturbance Type
- Possible grazing

Fire Age
- Moderate

Vegetation

Low Open Forest of Eucalyptus xerothermica over High Shrubland of Petalostylis labicheoides, Gossypium robinsonii, Acacia tumida var. pilbarensis over Shrubland of Acacia dictyophleba, Eremophila longifolia, Acacia tumida var. pilbarensis over Low Shrubland of Tephrosia rosea var. glabrior, Keraudrenia velutina over Open Tussock Grassland of Themeda triandra over Open Hummock Grassland of Triodia pungens

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<td>Gossypium robinsonii</td>
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<td>2-4</td>
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<td>Petalostylis labicheoides</td>
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<td>Acacia tumida var. pilbarensis</td>
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<td>Acacia dictyophleba</td>
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<td>Eremophila longifolia</td>
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<td>Tephrosia rosea var. glabrior</td>
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<td>Triodia pungens</td>
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<td>Paraneurachne muelleri</td>
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Site OR 65

Date 18/06/2010
Recorder DB & SF
Photo DB 72 & SF 604 & 605
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 706511
Northing 7458900
Habitat Plain - Drainage levee
Aspect N/A
Soil Red/brown loam
Rock Type Ironstone - pebbly scree
% Bare Ground 15
% Logs:Twigs:Leaves <1:1:10
Vegetation Condition Very good
Disturbance Type Minor grazing
Fire Age Moderate

Vegetation
Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Shrubland of Acacia ancistrocarpa, Acacia pruinocarpa, Acacia inaequilatera with Low Open Woodland of Corymbia deserticola subsp. deserticola, Eucalyptus gamophylla, Hakea chordophylla

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<td>Hakea chordophylla</td>
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#### Vegetation

- Low Open Forest of Acacia aneura var. intermedia over 
- Open Hummock Grassland of Triodia pungens with Open Shrubland of Acacia pruinocarpa, Eremophila forrestii subsp. forrestii

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<td>Eremophila longifolia</td>
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<tr>
<td>Acacia pruinocarpa</td>
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<tr>
<td>Solanum lasiophyllum</td>
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<td>Eucalyptus leucophloia subsp. leucophloia</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Fire Age</td>
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Vegetation
Hummock Grassland of Triodia pungens, Triodia wiseana with Low Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia over High Open Shrubland of Petalostylis labicheoides, Hakea chordophylla, Acacia pachyacra

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<td>Gossypium robinsonii</td>
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<tr>
<td>Eucalyptus xerothermica</td>
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<td>Eucalyptus gamophylla</td>
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<td>Petalostylis labicheoides</td>
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<td>Triodia wiseana</td>
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<td>Acacia inaequilatera</td>
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<td>0.5-1</td>
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<td>Hakea chordophylla</td>
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<td>Codonocarpus cotinifolius</td>
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<tr>
<td>Goodenia stobbsiana</td>
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<tr>
<td>Acacia pruinocarpa</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<tr>
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</tr>
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<td>Fire Age</td>
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<td>Low Open Forest of Eucalyptus leucophloia subsp. leucophloia over Hummock Grassland of Triodia wiseana</td>
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**Date**: 18/06/2010  
**Recorder**: DB & SF  
**Photo**: DB 75 & 76 & SF 607  
**Shape/Size**: 50m X 50m  
**Datum**: GDA94  
**Zone**: 50K  
**Easting**: 707354  
**Northing**: 7458240  
**Habitat**: Footslopes  
**Aspect**: North  
**Soil**: Red/brown loam  
**Rock Type**: Ironstone - pebbly scree  
**% Bare Ground**: 40  
**% Logs:Twigs:Leaves**: <1:1:2  
**Vegetation Condition**: Very good  
**Disturbance Type**: Access Track nearby  
**Fire Age**: Moderate  
**Vegetation**: Hummock Grassland of Triodia pungens with Very Open Mallee of Eucalyptus gamophylla over Open Shrubland of Acacia bivenosa, Acacia pachyacra, Acacia pruinocarpa

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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site: OR 71
Date: 18/06/2010
Recorder: DB/SF
Photo: DB 77 & SF 609
Shape/Size: 50m X 50m
Datum: GDA94
Zone: 50K
Easting: 707561
Northing: 7458576
Habitat: Low hills
Aspect: North west
Soil: Red/brown clay loam
Rock Type: Ironstone - cobbles and pebbly scree
% Bare Ground: 80
% Logs:Twigs:Leaves: <1:<1:<1
Vegetation Condition: Very good
Disturbance Type: Historical exploration track, high fire frequency, grazing
Fire Age: Young
Vegetation: Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) over Very Open Tussock Grassland of Amphipogon sericeus with Scattered Low Trees of Corymbia deserticola

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### Site OR 72

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**Habitat**
Flood plain associated with medium drainage line with levee banks and channels

**Aspect**
N/A

**Soil**
Red/brown - sandy clay loam

**Rock Type**
Ironstone and Chert - cobbles and pebbles (alluvial and mixed)

**% Bare Ground**
20

**% Logs:Twigs:Leaves**
1:04:08

**Vegetation Condition**
Very good

**Disturbance Type**
Livestock

**Fire Age**
Moderate

**Vegetation**
High Shrubland of Petalostylis labicheoides, Eremophila longifolia over Shrubland of Acacia pyrifolia over Low Shrubland of Triodia pungens, Sida fibulifera over Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus xerothermica, Corymbia hamersleyana

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## Species Data

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<tr>
<td>Paraneurachne muelleri</td>
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<tr>
<td>Solanum lasiophyllum</td>
<td>0.5</td>
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<tr>
<td>Acacia pyrifolia</td>
<td>&lt;1</td>
<td>1-2</td>
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</tr>
<tr>
<td>Codonocarpus cotinifolius</td>
<td>&lt;1</td>
<td>1-2</td>
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<tr>
<td>Acacia tumida var. pilbarensis</td>
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<tr>
<td>Amphipogon sericeus</td>
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<td>Duperreya commixta</td>
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<tr>
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<tr>
<td>Hibiscus sturtii var. campylocalamys</td>
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<tr>
<td>Acacia aneura var. tenuis</td>
<td>&lt;1</td>
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Site | OR 74
--- | ---
Date | 19/06/2010
Recorder | DB/SF
Photo | DB 81 & 82 & SF 621
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 708536
Northing | 7458858
Habitat | Floodplain
Aspect | N/A
Soil | Red/brown clay loam
Rock Type | Ironstone - pebbles, scattered
% Bare Ground | 25
% Logs:Twigs:Leaves | 5:07:10
Vegetation Condition | Very good - Good
Disturbance Type | Grazing, Fire frequency (dead Mulga)
Fire Age | Young
Vegetation | Low Open Forest of Acacia aneura over Hummock Grassland of Triodia pungens with Shrubland of Acacia aneura, Acacia pruinocarpa, Eremophila longifolia, Eremophila forrestii subsp. forrestii

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<tr>
<td>Eremophila latrobei subsp. filiformis</td>
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<tr>
<td>Gossypium robinsonii</td>
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<tr>
<td>Eremophila longifolia</td>
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<tr>
<td>Rulingia luteiflora</td>
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<tr>
<td>Senna artemisioides subsp. oligophylla</td>
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<tr>
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<td>Paraneurachne muelleri</td>
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<td>Sida fibulifera</td>
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<tr>
<td>Duperreya commixta</td>
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<tr>
<td>Sida arenicola</td>
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<tr>
<td>Cymbopogon ambiguus</td>
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<td>Acacia maitlandii</td>
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<td>Trichodesma zeylanicum</td>
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<td>Abundance</td>
<td>Height</td>
<td>Reference</td>
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<tr>
<td>Ptilotus calostachyus</td>
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<td>Solanum horridum</td>
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<td>Eulalia aurea</td>
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<td>Corchorus lasiocarpus subsp. parvus</td>
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<tr>
<td>Eremophila forrestii subsp. forrestii</td>
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<tr>
<td>Ptilotus exaltatus var. exaltatus</td>
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<td>Aristida holathera var. holathera</td>
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<td>Salsola tragus</td>
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Site: OR 75

Date: 19/06/2010
Recorder: DB/SF
Photo: DB 78 & SF 620
Shape/Size: 50m X 50m
Datum: GDA94
Zone: 50K
Easting: 708592
Northing: 7458227
Habitat: Spur hill slope
Aspect: West - East
Soil: Red/brown loam
Rock Type: Ironstone - cobbles and pebbly mantle
% Bare Ground: 80
% Logs:Twigs:Leaves: <1:2:1
Vegetation Condition: Very good
Disturbance Type: Near exploration track
Fire Age: Young

Vegetation:
Open Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835) with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia deserticola subsp. deserticola, Hakea chordophylla over Open Shrubland of Acacia pachyacra, Senna glutinosa subsp. x luerssenii, Acacia inaequilatera

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<th>Species</th>
<th>% Cover</th>
<th>Height</th>
<th>No.</th>
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<tr>
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<tr>
<td>Hakea chordophylla</td>
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<tr>
<td>Acacia inaequilatera</td>
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<td>1-3</td>
<td></td>
</tr>
<tr>
<td>Acacia pachyacra</td>
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<td>1-2</td>
<td></td>
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<tr>
<td>Senna glutinosa subsp. luerssenii</td>
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<td>Ptilotus rotundifolius</td>
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<td>Solanum lasiophyllum</td>
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<td>0.6</td>
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<tr>
<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>15</td>
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<tr>
<td>Amphipogon sericeus</td>
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<tr>
<td>Triodia pungens</td>
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<td>0.2</td>
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<tr>
<td>Aristida contorta</td>
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<tr>
<td>Ptilotus calostachyus</td>
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<tr>
<td>Acacia pyrifolia</td>
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<tr>
<td>Cymbopogon obtectus</td>
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<tr>
<td>Goodenia stobbsiana</td>
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<tr>
<td>Senna glutinosa subsp. pruinosa</td>
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<td>Species</td>
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<td>Diameter</td>
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<tr>
<td>Acacia bivenosa</td>
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<td>0.5</td>
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<tr>
<td>Sida arenicola</td>
<td>&lt;1</td>
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<tr>
<td>Acacia aneura var. tenuis</td>
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### Area C and Surrounds Study Area

#### Level 2 Flora & Vegetation Survey

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<tbody>
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<td>Recorder</td>
<td>GH</td>
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<tr>
<td>Shape/Size</td>
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<td>Datum</td>
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<tr>
<td>Zone</td>
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<tr>
<td>Easting</td>
<td>708415</td>
</tr>
<tr>
<td>Northing</td>
<td>7457297</td>
</tr>
<tr>
<td>Habitat</td>
<td>Steep hill slope leading to minor drainage line</td>
</tr>
<tr>
<td>Aspect</td>
<td>East</td>
</tr>
<tr>
<td>Soil</td>
<td>Skeletal orange/brown loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone - cliff, boulders and cobbles</td>
</tr>
<tr>
<td>% Bare Ground</td>
<td>65</td>
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<tr>
<td>% Logs:Twigs:Leaves</td>
<td>0.5:1:2</td>
</tr>
<tr>
<td>Vegetation Condition</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Fire</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Young - patchy</td>
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</tbody>
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#### Vegetation

- **Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia ferriticola over Open Shrubland of Stylobasium spathulatum, Eremophila jucunda subsp. pulcherrima**

### Species Table

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<tr>
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<td>Stylobasium spathulatum</td>
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<tr>
<td>Acacia pruinocarpa</td>
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<td></td>
</tr>
<tr>
<td>Triodia pungens</td>
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<td>1</td>
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<tr>
<td>Eremophila jucunda subsp. pulcherrima</td>
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<td>Cymbopogon ambiguus</td>
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<td>Senna glutinosa subsp. glutinosa</td>
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<td>Eriachne mucronata</td>
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<td>Goodenia stobbsiana</td>
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<td>0.3</td>
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<tr>
<td>Triumfetta leptacantha</td>
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<td>Gomphrena cunninghamii</td>
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### Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td><strong>Soil</strong></td>
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<tr>
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<tr>
<td><strong>% Logs: Twigs: Leaves</strong></td>
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</tr>
<tr>
<td><strong>Disturbance Type</strong></td>
<td>Fire, survey mark</td>
</tr>
<tr>
<td><strong>Fire Age</strong></td>
<td>Young - old - patchy</td>
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</table>

#### Vegetation

- **Open Hummock Grassland of Triodia wiseana** over Very
- **Open Tussock Grassland of Amphipogon sericeus**,
- **Eriachne lanata** with **Scattered Low Trees of Eucalyptus leucophloia** subsp. **leucophloia** over **Scattered Tall Shrubs of Hakea chordophylla**

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<tr>
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<tr>
<td>Acacia pruinocarpa</td>
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<tr>
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<tr>
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<td></td>
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<tr>
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<td>0.4</td>
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<tr>
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<tr>
<td>Goodenia stobbsiana</td>
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<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Ptilotus calostachyus</td>
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<td>1</td>
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<td>Acacia pyrifolia</td>
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<td>Triodia sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
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Site OR 78

Date 19/06/2010
Recorder GH
Photo 8051
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 709567
Northing 7457556
Habitat Small stony floodplain with minor drainage line (undulating levee banks and channels)
Aspect N/A
Soil Brown sandy clay loam
Rock Type Ironstone and Chert - cobbles and pebbles
% Bare Ground 35
% Logs:Twigs:Leaves <1:3:0.5
Vegetation Condition Very good
Disturbance Type Fire
Fire Age Young

Vegetation Hummock Grassland of Triodia pungens with High Shrubland of Gossypium robinsonii over Shrubland of Gossypium robinsonii, Stylobasium spathulatum, Senna artemisiodes subsp. oligophylla with Scattered Mallees of Eucalyptus gamophylla

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<td>Abundance</td>
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<td>Indigofera monophylla</td>
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<td>Trichodesma zeylanicum</td>
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<td>Triodia wiseana</td>
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19.06.2010, 14:06
Site | OR 79
---|---
Date | 19/06/2010
Recorder | GH
Photo | 8050
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 709255
Northing | 7457838
Habitat | Mid hill slope
Aspect | North - North East - moderate
Soil | Red/brown loam
Rock Type | Ironstone - outcropping, cobbles and pebbles
% Bare Ground | 75
% Logs:Twigs:Leaves | 0.5:0.5:0.5
Vegetation Condition | Very good
Disturbance Type | Fire, access track
Fire Age | Young

**Vegetation**

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<td>Goodenia stobbsiana</td>
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<td>Triodia wiseana</td>
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<tr>
<td>Solanum lasiophyllum</td>
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<td>Senna glutinosa subsp. pruinosa</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

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<td>Habitat</td>
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<td>Aspect</td>
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<tr>
<td>Soil</td>
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<tr>
<td>Rock Type</td>
<td>Ironstone - scattered pebbly scree</td>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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<tr>
<td>Disturbance Type</td>
<td>Grazing, exploration tracks nearby</td>
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<tr>
<td>Fire Age</td>
<td>Young - moderate</td>
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<td>Vegetation</td>
<td>Open Heath of Acacia bivenosa, Stylobasium spathulatum over High Shrubland of Gossypium robinsonii, Petalostylis labicheoides over Open Tussock Grassland of Themeda triandra with Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus xerothermica over Very Open Mallee of Eucalyptus gamophylla</td>
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<td>Gossypium robinsonii</td>
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### Area C and Surrounds Study Area

#### Level 2 Flora & Vegetation Survey

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<td><strong>Rock Type</strong></td>
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<tr>
<td><strong>% Bare Ground</strong></td>
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<td><strong>% Logs:Twigs:Leaves</strong></td>
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<tr>
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#### Vegetation

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Site | OR 82
---|---
Date | 19/06/2010
Recorder | DB/SF
Photo | DB 88 & 89 & SF 625
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 709722
Northing | 7459407
Habitat | Broad unincised drainage line
Aspect | South - gentle
Soil | Dark brown clay loam
Rock Type | Mixture of origin - cobbles and pebbles
% Bare Ground | 25
% Logs:Twigs:Leaves | 2:08:25
Vegetation Condition | Very good - Good
Disturbance Type | Grazing, fire frequency high, exploration surrounding
Fire Age | Young

**Vegetation**

- Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus xerothermica over High Open Shrubland of Petalostylis labicheoides over Open Shrubland of Acacia pyrifolia over Low Open Shrubland of Tephrosia rosea var. glabrior over Very Open Tussock Grassland of Themeda triandra, Paraneurachne muelleri

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### Habitat Description
- Open Scrub of Petalostylis labicheoides, Acacia monticola, Grevillea wickhamii subsp. hispidula over
- Open Tussock Grassland of Themeda triandra with Low
- Open Woodland of Corymbia hamersleyana, Eucalyptus leucophloia subsp. leucophloia

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**Vegetation**

Tussock Grassland of Themeda triandra with High Shrubland of Gossypium robinsonii, Petalostylis labicheoides, Santalum lanceolatum over Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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<tr>
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<tr>
<td>Jasminum didymum subsp. lineare</td>
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### Area C and Surrouns Study Area
#### Level 2 Flora & Vegetation Survey

**Site** | **OR 90**
---|---
**Date** | 19/06/2010
**Recorder** | GH
**Photo** | 8052
**Shape/Size** | 50m X 50m
**Datum** | GDA94
**Zone** | 50K
**Easting** | 711490
**Northing** | 7458430
**Habitat** | hill spur - lower hill slope
**Aspect** | North - gentle to moderate
**Soil** | Orange/brown loam
**Rock Type** | Ironstone/Chert - cobbles and pebbles
**% Bare Ground** | 70
**% Logs:Twigs:Leaves** | 0:0.5:0.5
**Vegetation Condition** | Very good
**Disturbance Type** | Access tracks, heritage site nearby
**Fire Age** | Young

#### Vegetation
Open Hummock Grassland of *Triodia* sp. Shovelanna Hill (S. van Leeuwen 3835), *Triodia* pungens with High Open Shrubland of *Acacia* inaequilatera, *Hakea* chordophylla with Scattered Low Trees of *Eucalyptus* leucophloia subsp. leucophloia

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<th>No.</th>
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<td><em>Corymbia</em> hamersleyana</td>
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<tr>
<td><em>Acacia</em> inaequilatera</td>
<td>2.5</td>
<td>2-5</td>
<td></td>
</tr>
<tr>
<td><em>Acacia</em> pruinocarpa</td>
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<td>1-2</td>
<td></td>
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<td><em>Triodia</em> sp. Shovelanna Hill (S. van Leeuwen 3835)</td>
<td>12</td>
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<tr>
<td><em>Amphipogon</em> sericeus</td>
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<td>0.3</td>
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<tr>
<td><em>Goodenia</em> stobbsiana</td>
<td>0.5</td>
<td>0.2</td>
<td></td>
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<tr>
<td><em>Ptilotus</em> calostachyus</td>
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<tr>
<td><em>Sida</em> arenicola</td>
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<td>1</td>
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<tr>
<td><em>Ptilotus</em> exaltatus var. exaltatus</td>
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<tr>
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<tr>
<td><em>Solanum</em> lasiophyllum</td>
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<tr>
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<td>0.3</td>
<td></td>
</tr>
<tr>
<td><em>Triodia</em> wiseana</td>
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<tr>
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<td><em>Solanum</em> phlomoides</td>
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<tr>
<td>Species</td>
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<td>Value2</td>
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<tr>
<td>-------------------------------------</td>
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<tr>
<td>Senna artemisioides subsp. oligophylla</td>
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<tr>
<td>Acacia monticola</td>
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</tr>
<tr>
<td>Senna glutinosa subsp. pruinosa</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<tbody>
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<td>Recorder</td>
<td>DB/SF</td>
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<td>DB 92 &amp; 93 &amp; SF 627</td>
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<tr>
<td>Shape/Size</td>
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<tr>
<td>Datum</td>
<td>GDA94</td>
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<tr>
<td>Zone</td>
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<tr>
<td>Northing</td>
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<td>Habitat</td>
<td>Footslopes (lower)</td>
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<td>Aspect</td>
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<tr>
<td>Soil</td>
<td>Red/brown clay loam</td>
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<td>Rock Type</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Grazing, exploration surrounding</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Young</td>
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<tr>
<td>Vegetation</td>
<td>Hummock Grassland of Triodia pungens with Very Open Mallee of Eucalyptus gamophylla over Open Shrubland of Acacia inaequilatera, Acacia pyrifolia, Acacia bivenosa</td>
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<table>
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<tr>
<th>Species</th>
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<td>Triodia pungens</td>
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<tr>
<td>Acacia ancistrocarpa</td>
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<td>1-2</td>
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<tr>
<td>Acacia pyrifolia</td>
<td>1.5</td>
<td>1-2</td>
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</tr>
<tr>
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<td>0.5</td>
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<tr>
<td>Senna artemisioides subsp. helmsii x oligophylla</td>
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<td>0.6</td>
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<tr>
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<td>Acacia adsurgens</td>
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<td>Rulingia luteiflora</td>
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<tr>
<td>Acacia bivenosa</td>
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<tr>
<td>Acacia pruinocarpa</td>
<td>&lt;1</td>
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<tr>
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<tr>
<td>Ptilotus calostachyus</td>
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<tr>
<td>Acacia aneura var. tenuis</td>
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<td>Petalostylis labicheoides</td>
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<tr>
<td>Sida arenicola</td>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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<td>Aspect</td>
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<tr>
<td>Soil</td>
<td>Orange/brown loam</td>
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<tr>
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<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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<td>Disturbance Type</td>
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<tr>
<td>Fire Age</td>
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**Vegetation**
Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia wiseana with Low Shrubland of Acacia hilliana, Acacia adoxa var. adoxa with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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<td>Hakea chordophylla</td>
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<td>0.5-1</td>
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<tr>
<td>Acacia pyrifolia</td>
<td>&lt;1</td>
<td>1-3</td>
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<tr>
<td>Senna glutinosa subsp. glutinosa</td>
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<td>1</td>
<td></td>
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<tr>
<td>Triodia wiseana</td>
<td>10</td>
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<tr>
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<td>Solanum lasiophyllum</td>
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<tr>
<td>Goodenia stobbsiana</td>
<td>&lt;1</td>
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<tr>
<td>Indigofera monophylla</td>
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<td>0.3</td>
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<tr>
<td>Acacia pruinocarpa</td>
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<tr>
<td>Amphipogon sericeus</td>
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<tr>
<td>Site</td>
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<td>Soil</td>
<td>Skeletal</td>
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<td>Rock Type</td>
<td>Ironstone - cliffs, outcrops, boulders and cobbles</td>
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<tr>
<td>Fire Age</td>
<td>Young - Old - patchy</td>
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**Vegetation**

Low Woodland of Corymbia ferritcula, Ficus brachypoda over Open Tussock Grassland of Eriachne mucronata over Open Hummock Grassland of Triodia pungens with High Open Shrubland of Ficus brachypoda, Eremophila tietkensii, Acacia hamersleyensis

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<thead>
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<th>Height</th>
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<td>Corymbia ferritcula</td>
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<tr>
<td>Acacia hamersleyensis</td>
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<td>Astrotricha hamptonii</td>
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<tr>
<td>Eriachne mucronata</td>
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<tr>
<td>Themeda triandra</td>
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<td>&lt;0.6</td>
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</tr>
<tr>
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Vegetation

Hummock Grassland of Triodia sp. Shovelanna Hill (S. van Leeuwen 3835), Triodia pungens with Low Shrubland of Acacia hilliana, Acacia adoxa var. adoxa, Corchorus lasiocarpus subsp. parvus with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia hamersleyana

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APPENDIX 14

Site sheets summarising raw data for the 17 additional quadrats assessed within the north-west sector of the Area C and Surrounds Study area; assessed by Onshore Environmental November 2009, February 2010 & June 2010.
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### Vegetation

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**Vegetation**

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### Vegetation

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Cucumis maderaspatanus

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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey
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Open Hummock Grassland of Triodia pungens with Low Open Woodland of Eucalyptus leucophloia subsp. leucophloia, Corymbia deserticola subsp. deserticola over Very Open Mallee of Eucalyptus gamophylla over Low Open Shrubland of Keraudrenia velutina subsp. elliptica

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Site W 11

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Recorder DB
Photo DB 39/40
Shape/Size 50m X 50m
Datum GDA94
Zone 50K
Easting 690648
Northing 7465215
Habitat Lower slopes
Aspect South west
Soil Red/brown clay loam - scattered rocky ironstone scree
Rock Type Ironstone
% Bare Ground 60
% Logs:Twigs:Leaves <1:2:2
Vegetation Condition Good
Disturbance Type Village and sewage ponds to east - grazing evident
Fire Age Young

Open Hummock Grassland of Triodia pungens over Very
Open Tussock Grassland of Eulalia aurea, Paraneurachne
muelleri with Low Open Woodland of Corymbia
deserticola subsp. deserticola, Corymbia hamersleyana
over High Open Shrubland of Acacia pruinocarpa

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<tr>
<td>Stremodia grossa</td>
<td>&lt;1</td>
<td>0.3</td>
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<td>Acacia dictyophleba</td>
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<tr>
<td>Senna venusta</td>
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<tr>
<td>Sida fibulifera</td>
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<tr>
<td>Boerhavia coccinea</td>
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<tr>
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<td>Presence</td>
<td>Density</td>
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<tr>
<td><em>Paraneurachne muelleri</em></td>
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<tr>
<td><em>Cucumis maderaspatanus</em></td>
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<td>Cl</td>
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<td><em>Duperreya commixta</em></td>
<td>&lt;1</td>
<td>Cl</td>
<td></td>
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<tr>
<td><em>Ptilotus exaltatus var. exaltatus</em></td>
<td>&lt;1</td>
<td>0.3</td>
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<tr>
<td><em>Senna glutinosa subsp. glutinosa</em></td>
<td>&lt;1</td>
<td>1.8</td>
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<tr>
<td><em>Rhogodia sp. Hamersley</em> (M. Trudgen 17794)</td>
<td>&lt;1</td>
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<tr>
<td><em>Eremophila jucunda subsp. pulcherrima</em></td>
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## Area C and Surrounds Study Area

### Level 2 Flora & Vegetation Survey

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<td>Habitat</td>
<td>Floodplain - sandy banks</td>
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<tr>
<td>Aspect</td>
<td>North west</td>
</tr>
<tr>
<td>Soil</td>
<td>Red/orange clay loam</td>
</tr>
<tr>
<td>Rock Type</td>
<td>Ironstone</td>
</tr>
<tr>
<td>% Bare Ground</td>
<td>25%</td>
</tr>
<tr>
<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
<td>Good</td>
</tr>
<tr>
<td>Disturbance Type</td>
<td>Grazing by cattle</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Moderate</td>
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<tr>
<td>Vegetation</td>
<td>Closed Tussock Grassland of Digitaria ammophila, Aristida jerichoensis subsp. subspinulifera, Themeda triandra with Open Woodland of Acacia aneura var. tenuis</td>
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### Vegetation

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<td>5-15</td>
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<tr>
<td>Aristida jerichoensis var. subspinulifera</td>
<td>12</td>
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</tr>
<tr>
<td>Aristida inaequiglumis</td>
<td>3</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>Themeda triandra</td>
<td>15</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>Digitaria ammophila</td>
<td>35</td>
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<tr>
<td>Aristida contorta</td>
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<tr>
<td>Eulalia aurea</td>
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<td>0.8</td>
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</tr>
<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>Stremodia grossa</td>
<td>&lt;1</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>Eremophila longifolia</td>
<td>&lt;1</td>
<td>1</td>
<td></td>
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<tr>
<td>Chrysocephalum apiculatum</td>
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<td>&lt;1.2</td>
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<tr>
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<td>&lt;1</td>
<td>&gt;2</td>
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<tr>
<td>Ptilotus obovatus var. obovatus</td>
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<td>0.6</td>
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<tr>
<td>Salsola tragus</td>
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<tr>
<td>Chrysocephalum apiculatum</td>
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<td>Northing</td>
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<tr>
<td>Aspect</td>
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<tr>
<td>Soil</td>
<td>Red/brown clay loam</td>
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<tr>
<td>Rock Type</td>
<td>chert/iron pebbles</td>
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<tr>
<td>% Bare Ground</td>
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<td>% Logs:Twigs:Leaves</td>
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<tr>
<td>Vegetation Condition</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Cattle</td>
<td></td>
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<tr>
<td>Fire Age</td>
<td>Young &amp; Very old patchy burn</td>
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**Vegetation**

<table>
<thead>
<tr>
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<tr>
<td>Aristida contorta</td>
<td>12</td>
<td>0.25</td>
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<tr>
<td>Acacia aneura var. tenuis</td>
<td>3</td>
<td>1-7</td>
<td>W14.03</td>
</tr>
<tr>
<td>Triodia pungens</td>
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<td>0.5</td>
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<tr>
<td>Sida fibulifera</td>
<td>&lt;1</td>
<td>0.3</td>
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<tr>
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<td>Sclerolaena cornishiana</td>
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<td>0.35</td>
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<td>Solanum lasiophyllum</td>
<td>1</td>
<td>0.5-1</td>
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</tr>
<tr>
<td>Digitaria brownii</td>
<td>&lt;1</td>
<td>0.5</td>
<td></td>
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<tr>
<td>Digitaria ammaphila</td>
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<td>0.35</td>
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<tr>
<td>Aristida inaequiglumis</td>
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<td>0.5-1</td>
<td>W17.01</td>
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<tr>
<td>Cenchrus cf. ciliaris</td>
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<td>0.5-1</td>
<td>W14.01</td>
</tr>
<tr>
<td>Enneaogon polyphyllus</td>
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<td>0.4</td>
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<td>Ptilotus obovatus var. obovatus</td>
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<td>0.5-1</td>
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<tr>
<td>Euphorbia australis</td>
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<tr>
<td>Boerhavia sp indet.</td>
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<td>0.2</td>
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<tr>
<td>Eremophila longifolia</td>
<td>&lt;1</td>
<td>1-1.5</td>
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</tr>
<tr>
<td>Duperreya commixta</td>
<td>&lt;1</td>
<td>Cl</td>
<td></td>
</tr>
<tr>
<td>Paraneurachne muelleri</td>
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<td>0.4</td>
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<td>Psydrax latifolia</td>
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<tr>
<td>Senna notabilis</td>
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<td>Acacia pachyacra</td>
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<td>Hibiscus sturtii var. platychlamys</td>
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<td>Species</td>
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<td>Size</td>
<td>Code</td>
</tr>
<tr>
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<tr>
<td><em>Hakea lorea subsp. lorea</em></td>
<td>&lt;1</td>
<td>1-1.5</td>
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<tr>
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### Area C and Surrounds Study Area
#### Level 2 Flora & Vegetation Survey

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</tr>
<tr>
<td>Northing</td>
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</tr>
<tr>
<td>Habitat</td>
<td>Floodplain - sandy banks</td>
</tr>
<tr>
<td>Aspect</td>
<td>North west</td>
</tr>
<tr>
<td>Soil</td>
<td>Red/orange clay loam - cracking</td>
</tr>
<tr>
<td>Rock Type</td>
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</tr>
<tr>
<td>% Bare Ground</td>
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</tr>
<tr>
<td>Disturbance Type</td>
<td>Grazing evident - frequent fire</td>
</tr>
<tr>
<td>Fire Age</td>
<td>Moderate</td>
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- **Vegetation**
  - Closed Tussock Grassland of Themeda triandra, Digitaria ammophila with Woodland of Acacia aneura var. tenuis over Low Open Woodland of Acacia aneura var. tenuis, Eremophila forrestii subsp. forrestii

<table>
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<th>No.</th>
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<tbody>
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</tr>
<tr>
<td>Solanum lasiophyllum</td>
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</tr>
<tr>
<td>Eremophila longifolia</td>
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<td>1.5</td>
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<tr>
<td>Themeda triandra</td>
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<tr>
<td>Aristida inaequiglumis</td>
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<tr>
<td>Digitaria ammophila</td>
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<td>Enneapogon polyphyllus</td>
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<td>Aristida contorta</td>
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<td>Salsola tragus</td>
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<tr>
<td>Eucalyptus xerothermica</td>
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<td>Paraneurachne muelleri</td>
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<td>Ptilotus obovatus var. obovatus</td>
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<tr>
<td>Eulalia aurea</td>
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Site | W 16
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Date | 15/02/2010
Recorder | MOC
Photo | 74
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 686474
Northing | 7464472
Habitat | Floodplain/Floodpan
Aspect | N/A
Soil | Orange/red loam clay
Rock Type | Nil
% Bare Ground | 65
% Logs:Twigs:Leaves | 00:05.5
Vegetation Condition | Excellent
Disturbance Type | Road nearby has changed drainage system
Fire Age | Old
Vegetation | Open Tussock Grassland of Aristida contorta with High Open Shrubland of Acacia aneura, Acacia paraneura

<table>
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<th>% Cover</th>
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<tr>
<td>Solanum lasiophyllum</td>
<td>&lt;1</td>
<td>0.4</td>
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<td>Pterocaulon sphaeranthoides</td>
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<td>Senna notabilis</td>
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<tr>
<td>Acacia paraneura</td>
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<td>2-3</td>
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Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey
Area C and Surrounds Study Area
Level 2 Flora & Vegetation Survey

Site | W 17
---|---
Date | 15/02/2010
Recorder | JB
Photo | 7337
Shape/Size | 50m X 50m
Datum | GDA94
Zone | 50K
Easting | 686332
Northing | 7464645
Habitat | Plain
Aspect | N/A
Soil | Red/brown loamy clay
Rock Type | Nil
% Bare Ground | 20
% Logs:Twigs:Leaves | 0:01:02
Vegetation Condition | Very good
Disturbance Type | Near highway, fencelines
Fire Age | Very old

Vegetation

<table>
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<th>Species</th>
<th>% Cover</th>
<th>Height</th>
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<tr>
<td>Aristida contorta</td>
<td>55</td>
<td>0.25</td>
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</tr>
</tbody>
</table>
| Aristida inaequilumis | 3 | 0.5-1 | W17.01
| Acacia paraneura | 3 | 1.5-6 | |
| Digitaria brownii | <1 | 0.5 | |
| Digitaria ammophila | 4 | 0.35 | |
| Aristida jerichoensis var. subspinulifera | 1 | 0.6 | |
| Fimbristylis dichotoma | <1 | 0.1 | |
| Sida fibulifera | 1 | 0.35 | |
| Eulalia aurea | <1 | 0.5 | |
| Acacia aneura var. tenuis | 0.5 | 2-3 | W14.03
| Acacia pruinocarpa | <1 | 2-3 | |
| Sida platycalyx | <1 | 0.3 | |
| Solanum ferocissimum | 2 | 0.35 | |
| Aristida obscura | <1 | 0.35 | |
| Enneapogon polyphyllus | <1 | 0.4 | |
| Eremophilia lanata | <1 | 0.3 | |
| Themeda triandra | <1 | 0.5-1 | |
| Euphorbia drummondii | <1 | 0.05 | |