

**Burnerbinmah Station 18-20 October 1998**  
**Soil Descriptions for Permanent Quadrats**  
**W.M.McArthur**

The soils were described, usually from a single 10 cm bore hole near the centre of the quadrat. Each soil horizon was described in terms of colour (Munsell notation eg Brown (7.5 YR 5/5)), (Munsell 1954), texture (estimated clay content), structure and fabric; the reaction (pH) was determined on some horizons using a universal indicator; depths are given in cms.

Most of the sites studied are underlain by the red-brown hard pan which is widespread in mulga country. In such soils there are generally no structural units evident. The surface soil is usually sandy and the lower horizons are firm and massive and have an earthy fabric with many pores and channels. In the following descriptions these properties are implied. NP indicates "not penetrable" by auger and usually means that the hard pan has been reached.

The hardpan soils (Hamilton, Woodline, Ero units) are generally classed as red earths and Gn 2.11 in the Northcote soil key; (Northcote 1971), the soils of the sandplains and dunes (Kalli) are classed as Uc 5.11 or Uc 5.22 in the Northcote key.

The soils within or bordering the lake or drainage zone are generally strongly alkaline; they consist of sedimentary deposits rather than soil horizons and so are difficult to classify. Soils associated with granite are variable in depth, colour and texture and are generally shallow gritty profiles.

**Quadrat C5 Mardamarda Paddock**

On top of eroded laterite residual with a 1-1.5 m scarp; the surface is mainly occupied by very irregular weathered granite outcrop with shallow soils in hollows; the soil described was the deepest profile found.

- 0      Brown (7.5 YR 5/4) light clay with a thin crust breaking into small plates.
- 5      Strong brown (7.5 YR 5/6) light clay; weak crumb structure; pH 6.
- 12     NP on granite.

**Quadrat A6 Mardamarda Paddock.**

At foot of low scarp; much loose stone on the surface.

- 0      Dark brown ((7.5 YR 4/4) clayloam; massive; porous.
- 5      Brown (7.5 YR 5/5 ) light clay; massive; porous.
- 15     Yellowish red (5 YR 5/6 ) light clay; massive; earthy; porous; pH 6.5;  
many quartz stones.
- 25     NP on weathering rock.

**Quadrat B5 – Marda Marda Paddock. Not seen.**

**Quadrat B 7. No Two Paddock.**

Mulga scrub.

- 0      Yellowish red (5YR 4/6) sandy loam; gritty; loose.
- 10     Yellowish red (5YR 5/6) sandy loam; gritty.

- 20 Yellowish red (5YR 5/6) loam; firm; gritty.
- 30 Yellowish red (5YR 5/8) loam; firm.
- 40 Yellowish red (5YR 5/8) clay loam; firm.
- 60 Yellowish red (5YR 5/8) light clay; firm;pH 6.
- 70 Yellowish red (5YR 5/8) light clay; firm;pH 6
- 80 Yellowish red (5YR 5/8) light clay; firm;pH 6.5
- 90 NP on hardpan.

**Quadrat C7, No Two Paddock.**  
Mulga scrub.

- 0 Reddish brown (5YR 4/5) Sandy loam; gritty.
- 10 Yellowish red (5YR 4/6) sandy loam; firm; gritty.
- 25 Yellowish red (5YR 5/6) sandy clay loam; firm.
- 40 Yellowish red (5YR 5/8) sandy clay loam; firm; pH 6.5
- 60 Yellowish red (5YR 5/8) sandy clay loam; firm; pH 6.5
- 70 NP on hardpan.

**Quadrat A8, No Two Paddock.**  
Mulga scrub

- 0 Reddish brown (2.5 YR 4/5) sandy loam; gritty; loose.
- 10 Red (2.5 YR 4/6) sandy loam; firm; pH 6.
- 20 Red (2.5 YR 4/6) sandy clay loam; firm.
- 40 Red (2.5 YR 4/8) light clay; firm.
- 48 NP on hardpan.

**Quadrat A 1. Coonthiago Paddock.**  
Mulga scrub at foot of low scarp.

- 0 Brown (7.5 YR 4/5) sandy clay loam; crumb structure; porous.
- 10 Brown (7.5 YR 4/5) sandy clay loam; firm; earthy; porous.
- 25 Strong brown (7.5 YR 4/6) sandy clay loam; firm; earthy and porous.
- 45 Yellowish red (5 YR 4/8) light clay; very firm; earthy, porous.
- 50 continuing but too hard to bore.

**Quadrat B 10. South Coonthiago Paddock.**  
Red sand dune with mulga and mallee.

- 0 Yellowish red (5 YR 4/6) fine sand; loose.
- 10 Dark reddish brown (5 YR 3/6) fine sand; loose.
- 25 Reddish brown (5 YR 3/8) fine sand; loose.
- 50 Strong brown (7.5 YR 4/6) fine sand; moist.
- 70 Strong brown (7.5 YR 4/8) clayey fine sand; firm; pH 6.
- 95 Continuing.

**Quadrat A 11.** South Coonthiago Paddock.

Red sand dune, mulga, mallee and some *Callitris* outside quadrat.

- 0 Reddish brown (5 YR 4/5) fine sand; loose.
- 10 Yellowish red (5 YR 4/6) fine sand; loose.
- 20 Yellowish red (5 YR 4/6) fine sand; loose.
- 50 Yellowish red (5 YR 5/8) fine sand; loose.
- 70 Same but brighter red; pH 7; damp.
- 95 Continuing; damp.

**Quadrat C 10.** South Coonthiago Paddock.

Nearly level sandy plain with mallee, mulga and spinifex.

- 0 Yellowish red (5 YR 4/6) fine sand; loose.
- 15 Yellowish red (5 YR 4/8) fine sand; loose.
- 30 Yellowish red (5 YR 5/8) fine sand; firm.
- 60 Light red (5 YR 5/9) loamy fine sand; firm.
- 80 Light red (5 YR 5/9) fine sandy loam; firm; pH 5.5.
- 90 NP on hardpan.

Note. Sand grains in B 10, C 10 and A 11 are generally angular and poorly sorted indicating that these deposits have not been transported great distances.

**Quadrat B9.** Dawson Paddock.

Slight rise in drainage zone.

- 0 Yellowish red (5 YR 4/6) light clay; strong crumb structure and tending to self-mulching, pH 9; sharp break to
- 10 Light greyish pink (5 YR 7/4) silty loam; mainly gypsum; pH 9-9.5; sharp change to
- 50 Yellowish red (5 YR 4/8) coarse sand
- 60 NP on hardpan.

Note. Soil consists of unrelated layers.

**Quadrat C9.** Dawson Paddock.

- 0 Yellowish red (5 YR 4/6) clay loam; pH 9-9.5
- 10 Yellowish red (5 YR 4/8) clay loam
- 20 Bright yellowish red (5 YR 4/9) sandy loam; pH 9-9.5
- 40 Bright yellowish red (5 YR 4/9) sandy loam; pH 9-9.5
- 45 NP on hardpan

**Quadrat A 10.** Dawson Paddock.

Low sandy rise in valley.

- 0 Red (2.5 YR 4/6) fine sand; loose.
- 10 Red (2.5 YR 4/8) fine sand; loose.
- 20 Red (2.5 YR 4/8) fine sand; loose.
- 40 Red (2.5 YR 5/8) clayey fine sand; firm; pH 9.
- 70 NP on hardpan.

**Quadrat B3.** North Bulgamarra Paddock.

Huge granite outcrop with shallow soils in depressions and creeks; profile taken in quadrat 3 m from base of granite.

- 0 Yellowish red (5YR 4/8) gritty loamy sand; loose.
- 10 Yellowish red (5YR 5/8) gritty sandy loam; firm.
- 20 Reddish yellow (5YR 6/8) gritty sandy loam; firm.
- 50 Reddish yellow (5YR 7/6) gritty sandy clay loam; firm; pH 6.
- 60 NP on granite.

**Quadrat A4.** North Bulgamarra Paddock.

At foot of huge granite outcrop; many boulders; some outcrop; many stones; mainly shallow gritty sands in hollows and creeks.

- 0 Reddish brown (5YR 5/4) gritty loamy sand; loose.
- 10 Brown (7.5 YR 5/4) gritty sandy loam; rock fragments.
- 20 Brown (7.5 YR 5/4) gritty sandy loam; rock fragments; pH 5.5-6.
- 35 NP on granite.

**Quadrat C3.** North Bulgamarra Paddock.

Top of large granite outcrop, many outcrops and boulders.

- 0 Yellowish red (5 YR 4/6) gritty loamy sand; loose.
- 10 Yellowish red (5 YR 5/6) gritty loamy sand; loose.
- 20 Reddish brown (5 YR 5/4) gritty clay loam; firm; pH 6.5.
- 30 Reddish brown (5YR 5/5) gritty light clay; firm; plastic.
- 45 NP on granite.

**Quadrat B2.** Nangel Paddock.

Red sandplain with scattered *Acacia* species and low heath of *Thryptomene* and sedges and spinifex.

- 0 Yellowish red (5YR 4/6) sand; loose.
- 10 Yellowish red (5 YR 4/8) sand; loose.
- 30 Yellowish red (5YR 5/8) sand; loose.
- 60 Red (2.5 YR 5/8) clayey sand; firm; pH 5.5.
- 85 Yellowish brown (10 YR 5/6) clayey sand; heavy gravel.
- 95 NP on hardpan.

Note. Sands angular and poorly sorted.

**Quadrat C2.** Nangel Paddock.

Red sandplain.

- 0 Reddish brown (5YR 5/4) sand; loose.
- 15 Yellowish red (5YR 5/6) sand; loose.
- 30 Yellowish red (5YR 5/6) clayey sand.
- 60 Strong brown (7.5YR 5/8) clayey sand; firm; pH 5.5.
- 90 Strong brown (7.5YR 5/9) clayey sand; firm.
- 95 Continuing.

**Quadrat A3.** Nangel Paddock.

Red sandplain with *Grevillea*, spinifex and sedges.

- 0 Dark brown (7.5YR 4/4) sand; loose.
- 15 Brown (7.5YR 5/4) sand; loose.
- 30 Brown (7.5YR 5/4) sand; loose.
- 60 Yellowish red (5YR 5/6) clayey sand; firm; pH 5.5.
- 90 Yellowish red (5YR 5/8) clayey sand; firm.
- 95 Continuing.

**Quadrat B 11.** Nangel Paddock.

Edge of dry creek; much granite outcrop; many boulders; mainly shallow gritty soils over granite.

- 0 Strong brown (7.5YR 4/6) gritty sand; loose.
- 10 Strong brown (7.5YR 5/6) gritty sand; loose.
- 25 Strong brown (7.5 YR 5/8) gritty sand; loose; pH 6.5.
- 40 Brown (7.5YR 5/4) gritty clayey sand.
- 50 NP on granite.

**Quadrat C 11.** Nangel Paddock.

Mulga scrub.

- 0 Dark red (2.5YR 3/6) sandy loam; weak crumb.
- 10 Red (2.5YR 4/6) sandy clay loam; firm.
- 20 Yellowish red (5YR 4/8) sandy clay loam; firm; pH 6.
- 35 NP on hardpan.

Note. **Quadrat A 12** Nangel Paddock not seen; probably sandy alluvium on valley floor-some outcrop.

**Quadrat B4.** Corryalgo Paddock

Sandy terrace with channels about 1 m deep cut through (photo 34 reel 2)

- 0 Light brown (7.5YR 6/4) very gritty sand; loose

- 15 Pink (7.5YR 7/4) very gritty sand; loose; stony
- 30 Light brown (7.5YR 6/4) very gritty sand; loose
- 60 Light brown (7.5YR 6/4) very gritty sand; loose
- 90 Reddish yellow (7.5YR 6/6) very gritty sand; pH 6.5
- 95 Continuing.

**Quadrat C4** South Bulgamarra Paddock

On top of weathered laterite surface (above gorge) has about 80% of site occupied by weathered granite. Small depressions have shallow (< 10 cm) brown gritty sand with many stones and rock fragments.

**Quadrat A5.** South Bulgamarra paddock

Is in the bottom of the gorge (not visited) shallow sandy soil with much white bare weathered granite outcrop.

**Quadrat B6** York (Ram Paddock)

York Gum-Acacia woodland on flat country. (Reel 3 photo 1)

- 0 Yellowish red (5YR 4/6) sandy loam; powdery; pH 8.5
- 10 Yellowish red (5YR 4/6) sandy loam; powdery; pH 8.5
- 20 Light reddish brown (5YR 6/4) loam with much finelime and lime  
nodules; pH 8.5-9
- 35 Pink (5YR 7/4) clay loam with lime nodules; pH 9
- 50 NP on hardpan.

**Quadrat C6** Mardagullamarra Paddock

Mainly claypan but with some remnants of original surface

- 0 Reddish brown (5YR 5/4) sandy loam; firm; pH 6
- 10 Light reddish brown (5 YR 6/4) clay loam; very firm
- 20 Brown (7.5 YR 5/4) light clay; very firm; pH 6.5
- 25 Light brown (7.5 YR 6/4) light clay; very firm; massive
- 30 Yellowish red (5 YR 5/6) medium clay; strong structure; pH 8.5
- 40 Yellowish red (5 YR 5/8) medium clay; pH 9
- 50 Continuing but too hard to bore.

**Quadrat A7** Mardagullamarra Paddock

Claypan too hard to bore, probably similar to C Marg 6, only 50 m away.

**Quadrat B1.** South Coonthiago Paddock.

Beside lake; on CUNYU unit; some lime nodules on surface.

- 0 Yellowish red (5YR 4/6) sandy loam; powdery; pH 8.5
- 10 Yellowish red (5YR 4/8) sandy clay loam; firm.
- 20 Yellowish red (5YR 4/8) sandy clay loam; firm.
- 30 Yellowish red (5 YR 5/8) light clay; lime nodules; pH 9

**Quadrat B8** Dawson Paddock

Samphire flats near drainage zone.

|    |                                                                              |
|----|------------------------------------------------------------------------------|
| 0  | Dark yellowish red (5 YR 3/6) loam; many palnt roots; powdery                |
| 10 | Yellowish red (5 YR 5/6) silty loam; powdery; pH 8.5                         |
| 20 | Yellowish red (5 YR 5/8) silty loam; firm; pH 8.5                            |
| 30 | Strong brown (7.5 YR 5/6) loam; heavy lime nodules                           |
| 50 | Strong brown (7.5 YR 5/6) loam; heavy lime nodules                           |
| 60 | Light brown (7.5 YR 6/4) sandy loam with very heavy lime gravel; water table |
| 70 | NP on hardpan                                                                |

Note: much of the site has the top 10-20 cm removed by erosion.

**References**

Munsell Color Co. (1954). *Soil Color Charts*. Munsell Color Co, Baltimore.

Northcote, K.H. (1971). *A factual key for the recognition of Australian soils*. Rellim, Adelaide.

- 50 Yellowish red (5 YR 5/8) light clay; lime nodules; pH 9
- 70 Red (2.5 YR 5/8) light clay; firm; pH 9
- 80 Red (2.5 YR 5/8) light clay; firm; pH 9
- 90 NP on lime (calcrete) pan.

**Quadrat A2** South Coonthiago Paddock

Low hill; lime nodules on surface.

- 0 Yellowish red (5 YR 4/6) sandy loam; powdery; pH 8.5
- 10 Yellowish red (5 YR 4/8) sandy loam; powdery; some lime
- 20 Yellowish red (5 YR 5/8) sandy clay loam; much lime; pH 8.5
- 25 NP on calcrete pan

Note. Depth to pan varies from 5 cm to 25 cm.

**Quadrat C1** South Coonthiago Paddock.

Acacia woodland on flat land.

- 0 Red (2.5 YR 4/6) sandy loam; powdery; pH 6
- 10 Red (2.5 YR 4/8) sandy loam; firm
- 30 Red (2.5 YR 5/8) loam; firm; pH 6
- 50 Red (2.5 YR 5/8) clay loam; firm
- 70 Red (2.5 YR 5/8) clay loam; firm
- 90 Red (2.5 YR 5/8) clay loam; firm; pH 6.5
- 95 NP on hardpan

**Quadrat A9** No. One Paddock

Red sandplain.

- 0 Dark red (2.5 YR 3/8) fine sand; loose; pH 5.5
- 15 Red (2.5 YR 4/8) fine sand
- 40 Red (2.5 YR 5/8) fine sand; pH 5.5
- 70 Red (2.5 YR 5/8) loamy fine sand; firm
- 90 Red (2.5 YR 5/8) clayey fine sand; pH 5.5
- 95 Continuing

**Quadrat C8** Dawson Paddock

Mulga plain.

- 0 Red (2.5 YR 4/6) loamy sand; loose; pH 6
- 10 Red (2.5 YR 4/8) sandy loam; firm; pH 5.5
- 20 Red (2.5 YR 5/8) sandy clay loam; firm; pH 5.5
- 40 Red (2.5 YR 5/8) sandy clay loam; firm; pH 5.5
- 60 Yellowish red (5 YR 5/8) sandy loam; much gravel; pH 6.5
- 70 NP on hardpan

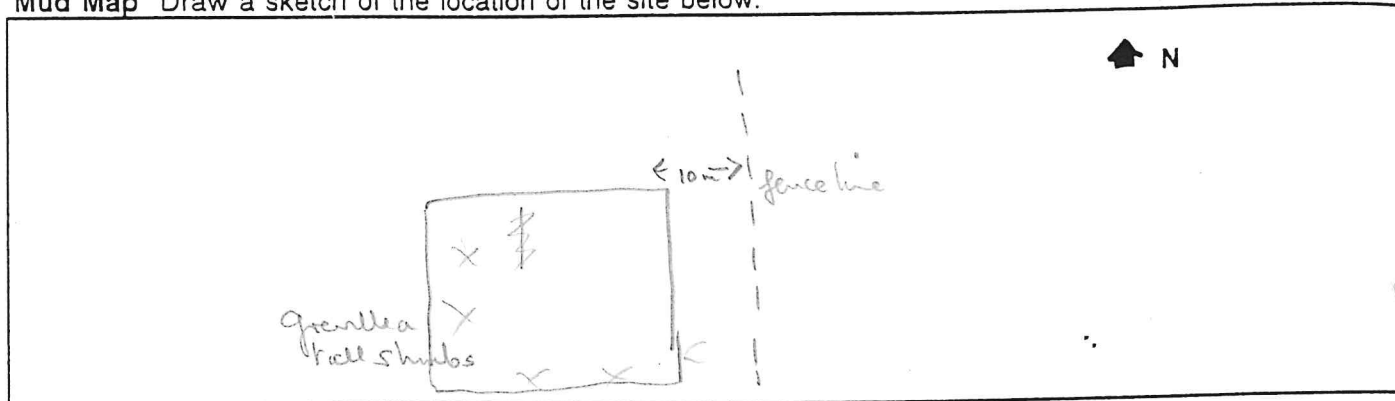
## BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Nangel Paddock SITE NUMBER A/Nang/3  
 DATE TRIP 10.9.96 RECORDERS S Patrick Ida Gary Ben Leslie  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST \_\_\_\_\_

From 'Bushland Plant Survey' written by  
 B. Keighery (1994) and published by the  
 Wildflower Society of WA (Inc.), PO Box  
 64 Nedlands WA 6008.

## 1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below.



## Road Location

Geographic Location Latitude S Longitude E Altitude

Reference Map

28°42' 37"

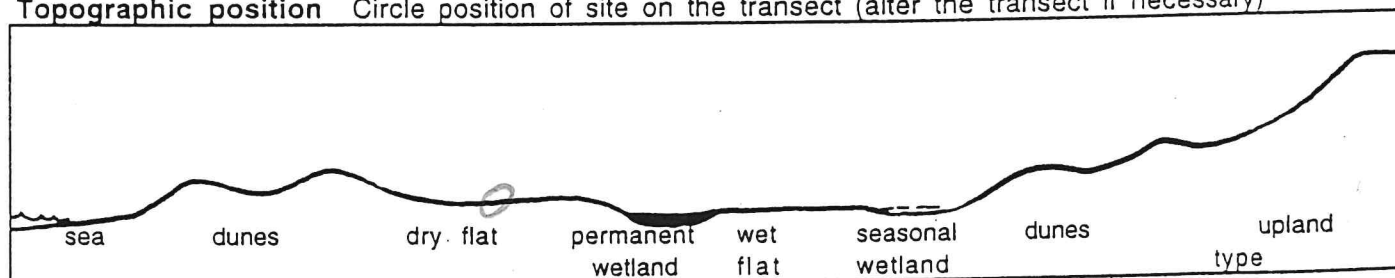
117° 14' 17"

## Photograph

Photographer's Name S Patrick

Photo No

Topographic position Circle position of site on the transect (alter the transect if necessary)



## 2. SITE DATA Circle the correct response.

|                  |             |         |       |             |    |             |   |          |               |               |   |    |
|------------------|-------------|---------|-------|-------------|----|-------------|---|----------|---------------|---------------|---|----|
| Slope            | flat        | gentle  | steep | Aspect      | N  | NE          | E | SE       | S             | <u>SW</u>     | W | NW |
| Surface Soil     | sand fine   |         |       |             |    |             |   |          | Colour        | red           |   |    |
| Exposed rock     | type        |         |       |             |    |             |   |          | % surface     | —             |   |    |
| Sub-surface Soil |             |         |       |             |    |             |   |          | Colour        |               |   |    |
| Rock             | type        |         |       |             |    |             |   |          | depth to rock |               |   |    |
| Drainage         | <u>well</u> | mod     | poor  | depth water | cm | Wet         |   | all year |               | winter/spring |   |    |
| Litter           | —           | % cover |       | < 1%        |    | Bare Ground |   | % cover  |               |               |   |    |
|                  | Depth       | cm      |       |             |    |             |   |          |               |               |   |    |

**BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only**

From '*Bushland Plant Survey*' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 64 Nedlands WA 6008.

### 3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

| Cover Class | 2-10% | 10-30% | 30 - 70% | over 70% |
|-------------|-------|--------|----------|----------|
|-------------|-------|--------|----------|----------|

|                  | TREES                                                                             |                                                                                   |                                                                                   | MALLEES                                                                            |                                                                                     |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  | over 30m                                                                          | 10 - 30m                                                                          | under 10m                                                                         | over 8m                                                                            | under 8m                                                                            |
| LIFE FORM        |  |  |  |  |  |
| COVER CLASS (%)  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| DOMINANT SPECIES |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |

|                  | SHRUBS<br>over 2m                                                                   | 2m - 1m                                                                              | SHRUBS<br>under 1m                                                                                                                                                                                                                                                          |
|------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIFE FORM        |  |  |  <div style="position: absolute; right: 0; top: 20%; transform: translateY(-50%);">2m</div> <div style="position: absolute; right: 0; top: 40%; transform: translateY(-50%);">1m</div> |
| COVER CLASS (%)  | 5%                                                                                  | 5%                                                                                   | 5%                                                                                                                                                                                                                                                                          |
| DOMINANT SPECIES | <i>gossypia</i> sp.                                                                 | <i>Alnus</i> sp.                                                                     | <i>Myrica</i> ? <i>Baccharis</i>                                                                                                                                                                                                                                            |

|                  | GRASSES                                                                             | HERBS                                                                               | SEDGES                                                                               | OTHER |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------|
| LIFE FORM        |  |  |  | 1m    |
| COVER CLASS (%)  | 25%<br>50%                                                                          |                                                                                     | 25%                                                                                  |       |
| DOMINANT SPECIES | Cynodorus<br>2 Eragrostis                                                           |                                                                                     | Sedge                                                                                |       |

#### 4. VEGETATION CONDITION

|   |            |   |                                                                                       |
|---|------------|---|---------------------------------------------------------------------------------------|
| 1 | 'PRISTINE' |   | COMMENTS<br><i>fairly undisturbed . a few dead gophers? just in<br/>         rock</i> |
| 2 | EXCELLENT  | ✓ |                                                                                       |
| 3 | VERY GOOD  |   |                                                                                       |
| 4 | GOOD       |   |                                                                                       |
| 5 | DEGRADED   |   |                                                                                       |



BUSHILAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

plant's name or working name if required

- Column 1 plant name -

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

- Column 4 identification check

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 64 Nedlands WA 6008.

[illegible]

ANANG3

ASCOON1 - Species List in Alphabetical Order

|                |                                           |               |                           |
|----------------|-------------------------------------------|---------------|---------------------------|
| 163            | Acacia coolgardiensis ssp. coolgardiensis | 2             |                           |
| 163            | Acacia coolgardiensis subsp. effusa       | 46            |                           |
| 163            | Acacia jamisiana                          | 104           |                           |
| 163            | Acacia ramulosa                           | 45            |                           |
| 315            | Anthrotroche panosa                       | 5             |                           |
| 345            | Bellida graminea                          | 27            |                           |
| 345            | Brachyscome ciliaris                      | 23            |                           |
| 345            | Brachyscome ciliocarpa                    | 205           |                           |
| 111            | Calandrinia eremea                        | 31            |                           |
| 345            | Calotis Multicaulis                       | 7             |                           |
| 345            | Ceratogyne Obionoides                     | 14            |                           |
| 32             | Chrysitrix distigmata                     | 40            |                           |
| 345            | Chthonocephalus pseudevax                 | 202           | 22                        |
| 149            | Crassula colorata                         | 35            |                           |
| 307A           | Cuscuta epithymum                         | 38            | Goodenia occidentalis 309 |
| 341            | Dampiera roylei                           | 16            |                           |
| 326            | Eremophila glandulifera                   | 36            |                           |
| 326            | Eremophila ?rostrata (sterile)            | 203           |                           |
| 167            | Erodium cygnorum                          | 17            |                           |
| 273            | Euryomyrtus sp. Golden Grove              | 106           |                           |
| 273            | Euryomyrtus sp.                           | 204           |                           |
|                | Fossombronia intestinalis (liverwort)     | 41            |                           |
| 345            | Gilbertia tenuifolia                      | 26            |                           |
| 345            | Gnephosis tenuissima                      | 207           |                           |
| 341            | Goodenia occidentalis                     | 3             |                           |
| 90             | Grevillea acacioides                      | 47            |                           |
| 90             | Grevillea juncifolia                      | 1             |                           |
| 223            | Keraudrenia integrifolia                  | 10            |                           |
| <del>345</del> | <del>Helipterum eraspedioides</del>       | <del>20</del> |                           |
| 345            | Lawrencella davenportii                   | 212           |                           |
| 54F            | Laxmania arida                            | 41            | 0                         |
| 273            | Micromyrtus flaviflora                    | 4             |                           |
| 345            | Millotia myosotidifolia                   | 217           |                           |
| 31             | Monachather paradoxus                     | 30            |                           |
| 31             | Pentaschistus airoides                    | 12            |                           |
| 345            | Podolepis canescens                       | 11            |                           |
| 345            | Rhodanthe polycephala                     | 15            | Rhodanthe citrina 306 0   |
| 315            | Solanum lasiophyllum                      | 29            |                           |
| 343            | Stylidium induratum                       | 24            |                           |
| 54F            | Thysanotus manglesianus                   | 13            | Thryptomene aspera 303    |
| 54F            | Thysanotus rectantherus                   | 11            | Thiodia tomentosa 101     |
| 281            | Trachymene ornata                         | 8             |                           |
| 281            | Uldinia ceratocarpa                       | 9             |                           |
| 341            | Velleia hispida                           | 25            |                           |
| 341            | Velleia rosea                             | 18            | Plectradne sp. 39         |

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

| 5. SPECIES PRESENCE | Label each plant with plants number, site code, date and plant's name or working name if required |
|---------------------|---------------------------------------------------------------------------------------------------|
|---------------------|---------------------------------------------------------------------------------------------------|

| SITE No | Record on Sheet | plant name-<br>Column 1 |
|---------|-----------------|-------------------------|
| 4       | 26              |                         |
| 4       | 27              |                         |
| 4       | 28              |                         |
| 4       | 29              |                         |
| 4       | 30              |                         |
| 4       | 31              |                         |
| 4       | 32              |                         |
| 4       | 33              |                         |
| 4       | 34              |                         |
| 4       | 35              |                         |
| 4       | 36              |                         |
| 4       | 37              |                         |
| 4       | 38              |                         |
| 4       | 39              |                         |
| 4       | 40              |                         |
| 4       | 41              |                         |
| 4       | 42              |                         |
| 4       | 43              |                         |
| 4       | 44              |                         |
| 4       | 45              |                         |
| 4       | 46              |                         |
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| Date     | 17.8.97      |
| Column 2 | plant number |
| •        |              |

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[illegible]