

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0764 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

|   |                                  |
|---|----------------------------------|
| <b>Desc. By:</b> Jaki Hogstrom              | <b>Locality:</b>                 |
| <b>Date Desc.:</b> 28/04/93                 | <b>Elevation:</b> 288 metres     |
| <b>Map Ref.:</b>                            | <b>Rainfall:</b> No Data         |
| <b>Northing/Long.:</b> 6313780 AMG zone: 50 | <b>Runoff:</b> No Data           |
| <b>Easting/Lat.:</b> 460040 Datum: AGD84    | <b>Drainage:</b> Rapidly drained |

**Geology**

|                                   |  |
|-----------------------------------|--|
| <b>ExposureType:</b> Auger boring | <b>Conf. Sub. is Parent. Mat.:</b> No Data |
| <b>Geol. Ref.:</b> No Data        | <b>Substrate Material:</b> No Data         |

**Land Form**

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

|                               |                                |
|-------------------------------|--------------------------------|
| <b>Morph. Type:</b> Mid-slope | <b>Relief:</b> 15 metres       |
| <b>Elem. Type:</b> Bench      | <b>Slope Category:</b> No Data |
| <b>Slope:</b> 2 %             | <b>Aspect:</b> 180 degrees     |

**Surface Soil Condition** Hardsetting, Hardsetting

**Erosion:** (wind); (sheet) (rill) (gully)

**Soil Classification**

|   |                                       |
|---|---------------------------------------|
| <b>Australian Soil Classification:</b> N/A            | <b>Mapping Unit:</b> N/A              |
| <b>ASC Confidence:</b> Confidence level not specified | <b>Principal Profile Form:</b> Gn4.12 |
|   | <b>Great Soil Group:</b> N/A          |

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

**Profile**

|     |               |   |
|-----|---------------|---|
| A11 | 0 - 0.03 m    | Dark reddish brown (5YR3/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence;<br>Water repellent; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -   |
| A12 | 0.03 - 0.07 m | Dark brown (7.5YR3/3-Moist); , 0-0% ; Clay loam, sandy; Moderate grade of structure, 20-50 mm,<br>Polyhedral; Rough-ped fabric; Dry; Firm consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots;<br>Abrupt change to -  |
| B21 | 0.07 - 0.2 m  | Reddish brown (5YR4/4-Moist); ; Sandy light clay; Moderate grade of structure, 10-20 mm, Polyhedral;<br>Rough-ped fabric; Dry; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Clear change to - |
| B22 | 0.2 - 0.4 m   | Red (2.5YR4/6-Moist); ; Light medium clay; Weak grade of structure; Rough-ped fabric; Dry; 10-20%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Common, fine (1-2mm) roots;  |

**Morphological Notes**

A12 Earthworms

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

|       |    |        |                      |              |     |      |     |
|-------|----|--------|----------------------|--------------|-----|------|-----|
| Depth | pH | 1:5 EC | Exchangeable Cations | Exchangeable | CEC | ECEC | ESP |
|-------|----|--------|----------------------|--------------|-----|------|-----|

| m          | dS/m         | Ca | Mg    | K    | Na  | Acidity | %     |
|------------|--------------|----|-------|------|-----|---------|-------|
| 0.07 - 0.2 | 5.6B<br>6.6H | 4B | 4.55A | 2.01 | 0.8 | 0.18    | 7.54D |
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| Depth      | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt |
|------------|-------|-----------|----------|---------|---------|---------|--------------|-------------|---------|-------------|------|
| m          | %     | %         | mg/kg    | %       | %       | %       | Mg/m3        |             |         | %           |      |
| 0.07 - 0.2 |       |           |          |         |         |         |              |             | 48l     |             | 8    |
| 44         |       |           |          |         |         |         |              |             |         |             |      |
| 0.07 - 0.2 |       |           |          |         |         |         |              |             | 48l     |             | 8    |
| 44         |       |           |          |         |         |         |              |             |         |             |      |
| 0.07 - 0.2 |       |           |          |         |         |         |              |             | 48l     |             | 8    |
| 44         |       |           |          |         |         |         |              |             |         |             |      |

#### Laboratory Analyses Completed for this profile

|                |  |
|----------------|--|
| 13C1_AL        | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon                        |
| 13C1_FE        | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon                        |
| 15_NR_BSa      | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available            |
| 15_NR_CM       | Exchangeable bases (Ca/Mg ratio) - Not recorded  |
| 15A1_CA        | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment      |
| for soluble    | salts  |
| 15A1_CEC       | Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts |
| 15A1_K         | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment      |
| for soluble    | salts  |
| 15A1_MG        | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment      |
| for soluble    | salts  |
| 15A1_NA        | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment      |
| for soluble    | salts  |
| 15J_BASES      | Sum of Bases   |
| 15L1_a         | Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using   |
| Sum of Cations | and measured clay  |
| 15N1_a         | Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC              |
| 15N1_b         | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations   |
| 3_NR           | Electrical conductivity or soluble salts - Not recorded                                      |
| 4_NR           | pH of soil - Not recorded  |
| 4B_AL_NR       | Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded                   |
| 4B1            | pH of 1:5 soil/0.01M calcium chloride extract - direct                                       |
| P10_gt2m       | > 2mm particle size analysis, (method not recorded)  |
| P10_NR_C       | Clay (%) - Not recorded  |
| P10_NR_S       | Sand (%) - Not recorded  |
| P10_NR_Z       | Silt (%) - Not recorded  |