**Project Name:** **Katanning land resources survey**
**Project Code:** **KLC** **Site ID:** **0078** **Observation ID:** **1**
**Agency Name:** **Agriculture Western Australia**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | Heather Percy | **Locality:** | |
| **Date Desc.:** | 28/10/91 | **Elevation:** | 287 metres |
| **Map Ref.:** | | **Rainfall:** | No Data |
| **Northing/Long.:** | 6269100 AMG zone: 50 | **Runoff:** | No Data |
| **Easting/Lat.:** | 583950 Datum: AGD84 | **Drainage:** | Moderately well drained |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Auger boring | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | No Data | **Substrate Material:** | No Data |

## Land Form

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

| | | | |
|---|---|---|---|
| **Morph. Type:** | Crest | **Relief:** | 10 metres |
| **Elem. Type:** | Hillcrest | **Slope Category:** | No Data |
| **Slope:** | 2 % | **Aspect:** | 90 degrees |

**Surface Soil Condition** Hardsetting, Hardsetting

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

## Soil Classification

**Australian Soil Classification:** N/A
**ASC Confidence:** Confidence level not specified
**Mapping Unit:** N/A
**Principal Profile Form:** Dy3.23
**Great Soil Group:** 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

A1 0 - 0.05 m Dark reddish brown (5YR3/2-Moist); , 0-0% ; Clay loam, fine sandy; Weak grade of structure; Rough-ped fabric; Dry; 2-10%, Ironstone, coarse fragments; Water repellent; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -

A2 0.05 - 0.55 m Reddish brown (5YR4/4-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Many, fine (1-2mm) roots; Clear change to -

B21 0.55 - 0.95 m Reddish brown (5YR5/4-Moist); Mottles, 10R46, 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 9.5 (Raupach); Common, fine (1-2mm) roots;

## Morphological Notes

| | |
|---|---|
| A1 | M S IS |
| A2 | FINE CHARCOAL FRAGMENTS |
| B21 | SAMPLED. F CHARCOAL FRAG. |

## Observation Notes

## Site Notes

**Project Name:** **Katanning land resources survey**
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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0.55 - 0.95 | 8.3B 9H | 100B | 5.14E | 8.74 | 1.2 | 3.42 | | 18B | 18.5D | 19.00 |
| 0.55 - 0.95 | 8.3B | 100B | 5.14E | 8.74 | 1.2 | 3.42 | | 18B | 18.5D | 19.00 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.55 - 0.95 | 9H<br>8.3B<br>9H | 100B | 5.14E | 8.74 | 1.2 | 3.42 | | 18B | 18.5D | 19.00 |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | GV | Particle CS | Size FS | Analysis Silt | Clay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0.55 - 0.95 | <2C | | | | | | | | 49.5I | | 9 | 41.5 |
| 0.55 - 0.95 | <2C | | | | | | | | 49.5I | | 9 | 41.5 |
| 0.55 - 0.95 | <2C | | | | | | | | 49.5I | | 9 | 41.5 |

**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15C1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_CEC | CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_K | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_MG | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_NA | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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 |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - 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 |