**Project Name:** **Katanning land resources survey**
**Project Code:** **KLC** **Site ID:** **0414** **Observation ID:** **1**
**Agency Name:** **Agriculture Western Australia**

## Site Information

**Desc. By:** Heather Percy
**Date Desc.:** 20/08/92
**Map Ref.:**
**Northing/Long.:** 6275680 AMG zone: 50
**Easting/Lat.:** 587990 Datum: AGD84
**Locality:**
**Elevation:** 287 metres
**Rainfall:** No Data
**Runoff:** No Data
**Drainage:** Imperfectly drained

## Geology

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

## Land Form

**Rel/Slope Class:** Level plain <9m <1%
**Morph. Type:** Flat
**Elem. Type:** Plain
**Slope:** 0 %
**Pattern Type:** Alluvial plain
**Relief:** 1 metres
**Slope Category:** No Data
**Aspect:** No Data

**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:** Uf6.13
**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 - 0.07 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Fine sandy light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -

B21k 0.07 - 0.3 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Common, fine (1-2mm) roots; Clear change to -

B22k 0.3 - 0.7 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Firm consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Concretions; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -

B23k 0.7 - 0.9 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B3 0.9 - 1 m Light brownish grey (2.5Y6/3-Moist); Mottles, 10R46, 10-20% , 5-15mm, Distinct; Mottles, 10YR71, 2-10% , 0-5mm, Distinct; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

**Morphological Notes**

| | |
|---|---|
| A1 | Sampled ESP, % clay |
| B21k | <35% MS in MC. Sampled ESP |
| B22k | <35% Sampled ESP, EC |

**Observation Notes**

**Site Notes**

Nader Road

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

| Depth | pH | 1:5 EC | Exchangeable Cations Ca | Mg | K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.07 | 6.4B 7.1H | 16B | 8.12A | 5.89 | 0.6 | 1.09 | | | 15.7D | |
| 0 - 0.07 | 6.4B 7.1H | 16B | 8.12A | 5.89 | 0.6 | 1.09 | | | 15.7D | |
| 0 - 0.11 | 6.03B | | | | | | | | | |
| 0.07 - 0.3 | 8.2B 9.2H | 24B | 7.49E | 7.59 | 0.22 | 2.44 | | 18B | 17.74D | 13.56 |
| 0.07 - 0.3 | 8.2B 9.2H | 24B | 7.49E | 7.59 | 0.22 | 2.44 | | 18B | 17.74D | 13.56 |
| 0.07 - 0.3 | 8.2B 9.2H | 24B | 7.49E | 7.59 | 0.22 | 2.44 | | 18B | 17.74D | 13.56 |
| 0.16 - 0.26 | 7.67B | | | | | | | | | |
| 0.3 - 0.7 | 8.5B 9.6H | 58B | 3.24E | 7.26 | 0.31 | 5.33 | | 16B | 16.14D | 33.31 |
| 0.3 - 0.7 | 8.5B 9.6H | 58B | 3.24E | 7.26 | 0.31 | 5.33 | | 16B | 16.14D | 33.31 |
| 0.3 - 0.7 | 8.5B 9.6H | 58B | 3.24E | 7.26 | 0.31 | 5.33 | | 16B | 16.14D | 33.31 |
| 0.41 - 0.51 | 8.17B | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis GV | CS | FS | Silt |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Clay | | | | | | | | | |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | |
| 0 - 0.07 | | | | | | | | | | | |
| 0 - 0.07 | | | | | | | | | | | |
| 0 - 0.11 | | | | | | | | | | | |
| 0.07 - 0.3 | 4C | | | | | | | | | | |
| 0.07 - 0.3 | 4C | | | | | | | | | | |
| 0.07 - 0.3 | 4C | | | | | | | | | | |
| 0.16 - 0.26 | | | | | | | | | | | |
| 0.3 - 0.7 | 9C | | | | | | | | | | |
| 0.3 - 0.7 | 9C | | | | | | | | | | |
| 0.3 - 0.7 | 9C | | | | | | | | | | |
| 0.41 - 0.51 | | | | | | | | | | | |

**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 15_NR_CMR | 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 |

| | |
|---|---|
| 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) |