

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0080 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 28/10/91
Map Ref.:
Northing/Long.: 6265210 AMG zone: 50
Easting/Lat.: 583950 Datum: AGD84
Locality:
Elevation: 295 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Flat
Elem. Type: Valley flat
Slope: 1 %
Relief: 30 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Hypocalcic Mottled-Hypernatric Brown Sodosol
ASC Confidence:
 Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy3.43
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 - 0.12 m | Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Water repellent; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Sharp change to - |
| A2e | 0.12 - 0.55 m | Light brownish grey (10YR6/2-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Moist; 10-20%, , coarse fragments; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Abrupt change to - |
| B21t | 0.55 - 0.57 m | Greyish brown (10YR5/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moist; Abrupt change to - |
| B22 | 0.57 - 0.7 m | Brown (10YR5/3-Moist); Mottles, 10YR71, 20-50% , 5-15mm, Distinct; Mottles, 10YR68; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; 2-10%, Ironstone, coarse fragments; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); |

Morphological Notes

A2e M R GC AT BASE OF LAYER AT BASE OF LAYER
 B22 SAMPLE C R GC

Observation Notes

Site Notes

Similar to site 73

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------|----|--------|----|-----------------|-----------|----|----------------------|-----|------|-----|
|-------|----|--------|----|-----------------|-----------|----|----------------------|-----|------|-----|

| m | dS/m | | Cmol (+)/kg | | | | | | | | % |
|------------|--------------|-----|-------------|------|------|------|--|-----|-------|-------|---|
| 0.57 - 0.7 | 7.4B 8.8H | 15B | 2.06E | 3.24 | 1.04 | 2.74 | | 13B | 9.08D | 21.08 | |
| 0.57 - 0.7 | 7.4B 8.8H | 15B | 2.06E | 3.24 | 1.04 | 2.74 | | 13B | 9.08D | 21.08 | |
| 0.57 - 0.7 | 7.4B 8.8H | 15B | 2.06E | 3.24 | 1.04 | 2.74 | | 13B | 9.08D | 21.08 | |

| Depth | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt |
|--------------------|-------|-------------------|-------------|------------|------------|------------|-----------------|----------------|------------|----------------|------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | |
| 0.57 - 0.7 37.5 | <2C | | | | | | | | 54.5l | | 8 |
| 0.57 - 0.7 37.5 | <2C | | | | | | | | 54.5l | | 8 |
| 0.57 - 0.7 37.5 | <2C | | | | | | | | 54.5l | | 8 |

Laboratory Analyses Completed for this profile

| | |
|------------------|--|
| 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 |
| 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 |