

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2360 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | |
|---|--|
| Desc. By: Angela Stuart-Street | Locality: |
| Date Desc.: 30/10/97 | Elevation: No Data |
| Map Ref.: | Rainfall: No Data |
| Northing/Long.: 6273958 AMG zone: 50 | Runoff: No Data |
| Easting/Lat.: 548318 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: No Data | Pattern Type: No Data |
| Morph. Type: No Data | Relief: No Data |
| Elem. Type: No Data | Slope Category: No Data |
| Slope: % | Aspect: No Data |

Surface Soil Condition Hardsetting, Hardsetting

Erosion: (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

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|--|------------------------------------|
| Australian Soil Classification: | Mapping Unit: N/A |
| Ferric Mesotrophic Yellow Chromosol | Principal Profile Form: N/A |
| ASC Confidence: | Great Soil Group: N/A |
| Confidence level not specified | |

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

Vegetation:

Surface Coarse

Profile

| | | |
|---------------------|--------------|---|
| A11c | 0 - 0.05 m | Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; 20-50%, fine gravelly, 2-6mm, rounded, |
| | | Ironstone, coarse fragments; 10-20%, medium gravelly, 6-20mm, rounded, Ironstone, |
| | | coarse fragments; |
| | | Water repellent; |
| A21c | 0.05 - 0.1 m | Pale brown (10YR6/3-Moist); ; Sand; 20-50%, fine gravelly, 2-6mm, rounded, Ironstone, |
| coarse | | fragments; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; |
| A22 | 0.1 - 0.5 m | Brownish yellow (10YR6/6-Moist); ; Coarse sand; 10-20%, fine gravelly, 2-6mm, |
| subrounded, Quartz, | | coarse fragments; 10-20%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; |
| A23 | 0.5 - 0.6 m | Brownish yellow (10YR6/6-Moist); ; Coarse sand; 10-20%, fine gravelly, 2-6mm, |
| subrounded, Quartz, | | coarse fragments; 10-20%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; |
| A31 | 0.6 - 0.7 m | Light yellowish brown (10YR6/4-Moist); ; Coarse sand; |
| B21t | 0.7 - 0.8 m | Yellow (2.5Y7/6-Moist); Substrate influence, 5YR58, 2-10% , 5-15mm, Distinct; Coarse |
| sandy clay loam; | | |

Morphological Notes

A11c Texture: gravelly gritty loamy sand.
A21c Texture: gravelly gritty sand.

Observation Notes

Site Notes

Surface cover patchy apparently bad in summer(wind & water erosion). Surface very hard but softened by irrigation, not wet at all like previous sites. Water on surface >10secs. metho <10secs but slower to just repellent.(see Loc. Notes also)

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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 - 0.1 | 4.9B 6.1H 4.9B | 8B | | | | | | | | |
| 0 - 0.1 | 6.1H 4.9B 6.1H 4.9B | 8B | | | | | | | | |
| 0.7 - 0.8 | 6.1H 4.7B 5.4H | 6B | | | | | | | | |

| Depth | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis |
|-----------|-------|-------------------|----------|---------|---------|---------|--------------|------------------------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | GV CS FS Silt |
| 0 - 0.1 | | 1.68D | | | 0.14E | | | 95.5I 2 |
| 2.5 | | 1.68D | | | 0.14E | | | 95.5I 2 |
| 0 - 0.1 | | 1.68D | | | 0.14E | | | 95.5I 2 |
| 2.5 | | 1.68D | | | 0.14E | | | 95.5I 2 |
| 0.7 - 0.8 | | 0.1D | | | | | | 73.5I 2.5 |
| 24 | | | | | | | | |

Laboratory Analyses Completed for this profile

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|----------|---|
| 18A1_NR | Bicarbonate-extractable potassium (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 |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 7A1 | Total nitrogen - semimicro Kjeldahl, steam distillation |
| 7C1a | Ammonium-N, in presence or absence of nitrite |
| 7C1e | Nitrate-N, in presence of nitrite |
| 9B_NR | Bicarbonate-extractable phosphorus (not recorded) |
| 9H1 | Anion storage capacity |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_S | Sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |