

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 0047 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | | | |
|------------------------|----------------------|-------------------|---------------------|
| Desc. By: | Rohan Marold | Locality: | |
| Date Desc.: | 14/09/95 | Elevation: | 260 metres |
| Map Ref.: | | Rainfall: | No Data |
| Northing/Long.: | 6231280 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 632874 Datum: AGD84 | Drainage: | Imperfectly drained |

Geology

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

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Plain

| | | | |
|---------------------|--------------|------------------------|---------|
| Morph. Type: | Simple-slope | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | No Data |
| Slope: | % | Aspect: | No Data |

Surface Soil Condition Hardsetting, Hardsetting

Erosion

Soil Classification

| | | | |
|---|--|--------------------------------|--------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Sodic Mesotrophic Brown Dermosol | | Principal Profile Form: | Uf1.42 |
| ASC Confidence: | | Great Soil Group: | N/A |
| No analytical data and little or no knowledge of this soil. | | | |

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

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

| | | |
|-----|--------------|---|
| Ap | 0 - 0.04 m | Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 7 (Raupach); Clear change to - |
| B21 | 0.04 - 0.2 m | Yellowish brown (10YR5/6-Moist); , 0-0% ; Light medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 7 (Raupach); Clear change to - |
| B22 | 0.2 - 0.4 m | Light yellowish brown (10YR6/4-Moist); , 5YR5/8, 10-20% , 5-15mm, Distinct; Light Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); |

Morphological Notes

Ap
B21
B22 ALSO MOTTLES CMD 10YR 6/8.

Observation Notes

Site Notes

Hardsetting orange-red clay. occurs in small patches. surrounding soils are similar but with shallow sandy loam, ap. above a gentle drain lines

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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 - 0.04 | 5.4B 6.3H | 74B | 0.57H | 2.76 | 0.17 | 1.73 | 0.04J | 5.23D |
| 0 - 0.04 | 5.4B 6.3H | 74B | 0.57H | 2.76 | 0.17 | 1.73 | 0.04J | 5.23D |
| 0.04 - 0.2 | 4.9B 5.6H | 100B | 0.2H | 2.06 | 0.19 | 1.73 | 0.22J | 4.18D |
| 0.04 - 0.2 | 4.9B 5.6H | 100B | 0.2H | 2.06 | 0.19 | 1.73 | 0.22J | 4.18D |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size | Analysis |
|--------------------|-------|-----------|----------|---------|---------|---------|--------------|---------------|----------|
| m | % | Clay % | mg/kg | % | % | % | Mg/m3 | GV CS FS | Silt |
| 0 - 0.04 24.5 | | 1.2D | | | | | | 70.5I | 5 |
| 0 - 0.04 24.5 | | 1.2D | | | | | | 70.5I | 5 |
| 0.04 - 0.2 47.5 | | 0.87D | | | | | | 48I | 4.5 |
| 0.04 - 0.2 47.5 | | 0.87D | | | | | | 48I | 4.5 |

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 |
| 15E1_AL | Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts |
| 15E1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_K | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MG | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MN | Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_NA | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15J_BA | Sum of Bases |
| 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 |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 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 |