Project Name: Tonebridge land resources survey

Observation ID: 1 **Project Code:** TON Site ID: 0789

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Angela Stuart-Street Locality:

Date Desc.: 08/12/98 Elevation: No Data Map Ref.: Rainfall: No Data

Northing/Long.: 6190403 AMG zone: 50 Runoff: No Data Well drained 484770 Datum: AGD84 Drainage: Easting/Lat.:

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: **Substrate Material:** No Data No Data

Landform

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

Morph. Type: Upper-slope Relief: No Data Hillslope Slope Category: No Data Elem. Type: Slope: Aspect: 180 degrees 2 %

Surface Soil Condition Firm

(wind); (scald) (sheet) (wave) (rill) (mass) **Erosion**

(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Bleached-Ferric Mesotrophic Yellow Chromosol **Principal Profile Form:** N/A ASC Confidence: **Great Soil Group:** N/A

Confidence level not specified

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

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone; 2-10%, cobbly, 60-

200mm, subrounded, Ironstone

Profile Morphology A1p 0 - 0.1 m Dark brown (10YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Dry; Very

weak consistence:

10-20%, fine gravelly, 2-6mm, subrounded tabular, Ironstone, coarse fragments; 2-10%,

medium gravelly, 6-20mm, subrounded tabular, Ironstone, coarse fragments; Water repellent;

Field pH 5.4 (pH

meter); Abrupt, Smooth change to -

Light yellowish brown (10YR6/4-Moist); Clayey sand; Massive grade of structure; Dry; A21c 0.1 - 0.2 m Very weak

consistence; 20-50%, fine gravelly, 2-6mm, subrounded tabular, Ironstone, coarse

fragments; 2-10%, medium gravelly, 6-20mm, subrounded tabular, Ironstone, coarse fragments; Field pH 5.7

(pH meter);

Clear, Wavy change to -

A22c 0.2 - 0.4 m Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 20-

50%, fine gravelly, 2-6mm, subrounded tabular, Ironstone, coarse fragments; 2-10%, medium gravelly, 6-

20mm, subrounded tabular, Ironstone, coarse fragments; Field pH 6 (pH meter); Clear,

Wavy change to -

Very pale brown (10YR7/4-Moist); , 10YR78, 10-20% , 15-30mm, Distinct; , 5YR58, 2-B11c 0.4 - 0.75 m

10%, 0-5mm, Prominent; Clay loam; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Firm

consistence; 20-

50%, fine gravelly, 2-6mm, Clay, coarse fragments; Field pH 5.8 (pH meter); Diffuse change to -

B21tc 0.75 - 1.4 m

Very pale brown (10YR7/4-Moist); , 10YR78, 10-20% , 15-30mm, Distinct; , 5YR58, 2-10%, 0-5mm,

Prominent; Light clay; Moderate grade of structure, 2-5 mm, Angular blocky; Dry; Very

firm consistence:

Morphological Notes

Observation Notes

Site Notes

Structured clay occurs in patches in layers 4 & 5 , pale bands in layers 5.

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Laboratory Test Results:

| Depth | рН | 1:5 EC | Ex Ca | xchangeable Cations Mg K | | Na | Exchangeable Na Acidity Cmol (+)/kg | | ECEC | ESP |
|------------|--------------|--------|----------|-----------------------------|-------|------|---|--|-------|-----|
| m | | dS/m | Ca | | | | | | | % |
| 0 - 0.1 | 4.9B 5.9H | 10B | 3.35H | 0.38 | 0.23 | 0.29 | 0.51J | | 4.25D | |
| 0.1 - 0.2 | 5.4B 6.3H | 1B | 1.03H | 0.26 | <0.02 | 0.02 | | | 1.32D | |
| 0.2 - 0.4 | 5B 6H | 1B | 0.98H | 0.17 | <0.02 | 0.06 | 0.05J | | 1.22D | |
| 0.4 - 0.75 | 6.1B 6.3H | 2B | 0.87H | 1.55 | 0.02 | 0.04 | | | 2.48D | |
| 0.75 - 1.4 | 6B 6.2H | 2B | 0.63H | 1.95 | 0.04 | 0.13 | | | 2.75D | |

| Depth | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | GV | Particle CS | Size FS | Analysis Silt |
|--------------------|-------|----------------------|-------------|------------|------------|------------|-----------------|----|----------------|------------|------------------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | |
| 0 - 0.1 2.6 | | 3.99D | | 320B | | | | | | | 4.8 |
| 0.1 - 0.2 10.8 | | 0.24D | | 37B | | | | | | | 3.9 |
| 0.2 - 0.4 6.7 | | 0.49D | | 43B | | | | | | | 3.6 |
| 0.4 - 0.75 51.2 | | 0.1D | | 23B | | | | | | | 6.7 |
| 0.75 - 1.4 55.8 | | 0.07D | | 23B | | | | | | | 7.6 |

Laboratory Analyses Completed for this profile

| 15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded 15_NR_MN Exchangeable bases (Mn++) - meq per 100g of soil - 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 solu | ole |
|---|-----|
| salts | |
| 15E1_K Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble sal | :S |
| 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble sal | S |
| 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 sal | S |
| 15J_BASES Sum of Bases | |
| 15N1_b Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cation | s |
| 3_NR Electrical conductivity or soluble salts - Not recorded | |
| 4_NR pH of soil - Not recorded | |
| 4B_AL_NR Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded | |
| 4B1 pH of 1:5 soil/0.01M calcium chloride extract - direct | |
| 6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method | |
| 9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour | |
| 9H1 Anion storage capacity | |

| P10_1m2m | 1000 to 2000u particle size analysis, (method not recorded) |
|------------|---|
| P10_20_75 | 20 to 75u particle size analysis, (method not recorded) |
| P10_75_106 | 75 to 106u particle size analysis, (method not recorded) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_Saa | Sand (%) - Not recorded arithmetic difference, auto generated |
| P10_NR_Z | Silt (%) - Not recorded |
| P10106_150 | 106 to 150u particle size analysis, (method not recorded) |
| P10150_180 | 150 to 180u particle size analysis, (method not recorded) |
| P10180_300 | 180 to 300u particle size analysis, (method not recorded) |
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P10300_600 P106001000 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)