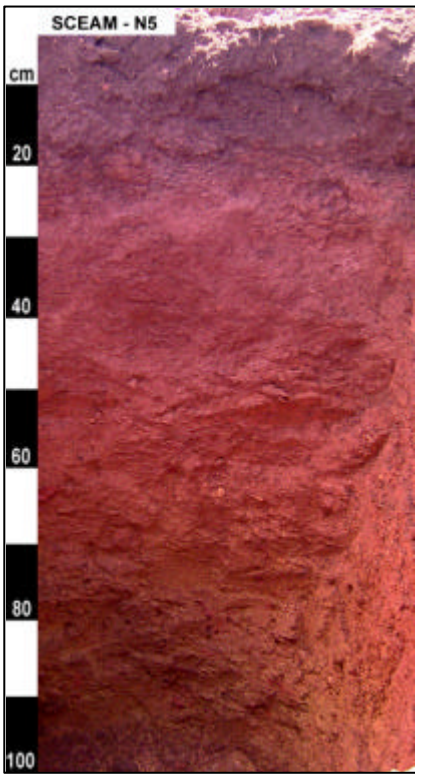
**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
**Project Code:** SCEAM **Site ID:** N5 **Observation ID:** 1
**Agency Name:** TAS Department of Primary Industries and Water




## Site Information

**Desc. By:** R. Moreton
**Date Desc.:** 16/09/05
**Map Ref.:**
**Northing/Long.:**
**Easting/Lat.:**
**Locality:** Deloraine
**Elevation:** 290 metres
**Rainfall:** 1040
**Runoff:** Moderately rapid
**Drainage:** Well drained

## Geology

**ExposureType:** Soil pit
**Geol. Ref.:** Tertiary Basalt
**Conf. Sub. is Parent. Mat.:** Certain
**Substrate Material:** Basalt

## Land Form

**Rel/Slope Class:** Gently undulating plains <9m 1-3%
**Morph. Type:** Mid-slope
**Elem. Type:** Hillslope
**Slope:** 1 %
**Pattern Type:** Low hills
**Relief:** No Data
**Slope Category:** Very gently sloped
**Aspect:** 340 degrees

**Surface Soil Condition (dry):** Soft

**Erosion:** Partial, Minor (sheet)

## Soil Classification

**Australian Soil Classification:**
Haplic Mesotrophic Red Ferrosol Medium Non-gravelly Clay-loamy Clayey Deep
**ASC Confidence:**
All necessary analytical data are available.

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

**Vegetation:** Pasture/ crop

**Surface Coarse Fragments:** 20-50%, medium gravelly, 6-20mm, ,

## Profile Morphology

Ap 0 - 0.18 m
Dark brown (7.5YR3/3-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very weak consistence; Slightly plastic; Moderately sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -

B1t 0.18 - 0.5 m
Dark reddish brown (5YR3/4-Moist); Mottles, 0-2%, 0-5mm, Distinct, 10R3/8; Clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Diffuse, Smooth change to -

B2t 0.5 - 0.8 m
Yellowish red (5YR4/6-Moist); Substrate influence, 0-2%, 0-5mm, Distinct, 7.5YR5/8; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Coarse (>5mm) macropores, Very weak consistence; Moderately plastic; Very sticky; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferruginous, Nodules, Coarse (6 - 20 mm) segregations; Diffuse, Smooth change to -

B3t 0.8 - 1.05 m
Yellowish red (5YR5/8-Moist); Substrate influence, 10-20%, 0-5mm, Distinct, 10R3/8; Mottles, 2-10%, 0-5mm, Distinct, 10YR5/8; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; Moderately plastic; Very sticky; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Common (10 - 20 %), Ferruginous, Nodules, Coarse (6 - 20 mm) segregations;

## Chemistry Data

| | | | | Organic C% | pH (H20) | pH (CaCl2) | EC (dS/m) | Exchangeable Bases (meq/100g) Ca | Mg | Na | K | ECEC (meq/100g) | ESP % | Olsen P (mg/kg) | Total N % | Colwell_K (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N5 | | | | | | | | | | | | | | | | |
| 0 | to | 75 | mm | 4.30 | 6.5 | 5.9 | 0.07 | 15.99 | 2.44 | 0.14 | 0.78 | 19.35 | 0.72 | 44.20 | 0.37 | 289 |
| 200 | to | 275 | mm | 2.61 | 6.7 | 6.0 | 0.07 | 10.56 | 1.89 | 0.14 | 0.26 | 12.85 | 1.09 | 10.40 | 0.22 | 105 |
| 300 | to | 500 | mm | 0.89 | 5.8 | 5.4 | 0.03 | 4.61 | 1.56 | 0.10 | 0.04 | 6.35 | 1.58 | 2.10 | 0.09 | 21 |
| 500 | to | 800 | mm | 0.60 | 6.0 | 5.9 | 0.04 | 2.17 | 2.33 | 0.13 | 0.03 | 4.68 | 2.78 | 2.20 | 0.08 | 21 |
| 800 | to | 1050 | mm | 0.52 | 5.5 | 5.3 | 0.06 | 2.25 | 2.50 | 0.18 | 0.04 | 5.00 | 3.60 | 2.40 | 0.07 | 26 |