

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C9 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 11/11/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: near Somerset
Elevation: 140 metres
Rainfall: 1154
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: Undulating low hills 30-90m
 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 5 %

Pattern Type: Low hills
Relief: No Data
Slope Category: Very gently sloped
Aspect: 320 degrees

Surface Soil Condition (dry): Soft

Erosion: Partial, Minor (sheet)

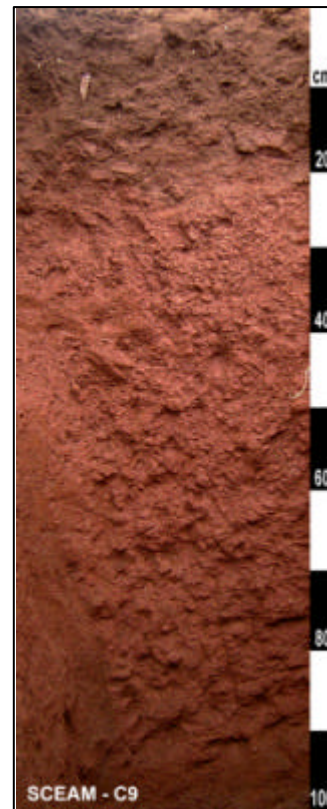
Soil Classification

Australian Soil Classification:
 Haplic Eutrophic Red Ferrosol
 Medium Non Gravelly Clay Loamy Clayey Deep
ASC Confidence:
 All analytical data available

Site Disturbance: Complete clearing

Vegetation:

Surface Coarse Fragments: 2-10%, stony, 200-600mm



Profile Morphology

| | | |
|------|--------------|--|
| Ap1 | 0 - 0.12 m | Dark brown (7.5YR3/4-Moist); Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Moderately sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| Ap2 | 0.12 - 0.2 m | Dark brown (7.5YR3/4-Moist); Mottles, 2-10%, 0-5mm, Faint, 5YR3/4; Clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Weak consistence; Slightly plastic; Moderately sticky; Abrupt, Wavy change to - |
| B1t | 0.2 - 0.35 m | Dark reddish brown (5YR3/4-Moist); Mottles, 2-10%, 0-5mm, Faint, 7.5YR3/4; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moist; Very weak consistence; Moderately plastic; Very sticky; Clear, Smooth change to - |
| B21t | 0.35 - 0.6 m | Dark reddish brown (5YR3/4-Moist); Mottles, 2-10%, 5-15mm, Faint, 7.5YR3/4; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moist; Very weak consistence; Moderately plastic; Very sticky; Gradual, Smooth change to - |
| B22t | 0.6 - 1 m | Reddish brown (5YR4/4-Moist); Mottles, 2-10%, 5-15mm, Faint, 7.5YR3/4; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Very weak consistence; Moderately plastic; Very sticky; |

Chemistry Data

| | Organic C% | pH (H2O) | pH (CaCl2) | EC (dS/m) | Exchangeable Bases (meq/100g) | | | | ECEC (meq/100g) | ESP % | Olsen P (mg/kg) | Total N % | Colwell_K (mg/kg) |
|------------------|------------|----------|------------|-----------|-------------------------------|------|------|------|-----------------|-------|-----------------|-----------|-------------------|
| | | | | | Ca | Mg | Na | K | | | | | |
| C9 0 to 75 mm | 4.68 | 6.0 | 5.3 | 0.07 | 11.70 | 2.95 | 0.16 | 1.25 | 16.29 | 0.98 | 38.70 | 0.44 | 475 |
| 120 to 200 mm | 3.93 | 5.9 | 5.1 | 0.05 | 8.22 | 1.97 | 0.12 | 0.87 | 11.27 | 1.06 | 18.80 | 0.42 | 331 |
| 200 to 275 mm | 3.83 | 5.6 | 4.9 | 0.10 | 8.10 | 2.71 | 0.23 | 0.70 | 11.99 | 1.92 | 15.90 | 0.34 | 244 |
| 200 to 350 mm | 2.17 | 5.6 | 5.0 | 0.06 | 4.94 | 1.25 | 0.11 | 0.45 | 6.83 | 1.61 | 2.10 | 0.24 | 162 |
| 350 to 600 mm | 1.51 | 5.7 | 5.5 | 0.07 | 4.89 | 1.66 | 0.12 | 0.30 | 7.00 | 1.71 | 0.70 | 0.18 | 104 |
| 600 to 1000 mm | 1.72 | 5.5 | 4.8 | 0.05 | 4.46 | 1.39 | 0.13 | 0.28 | 6.33 | 2.05 | 1.10 | 0.20 | 99 |