

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** C16 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** R. Moreton  
**Date Desc.:** 14/11/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**  
**Locality:** Latrobe  
**Elevation:** 109 metres  
**Rainfall:** 927  
**Runoff:** Rapid  
**Drainage:** Poorly drained

**Geology**

**Exposure Type:** Soil pit  
**Geol. Ref.:** Tertiary Sediments  
**Conf. Sub. is Parent. Mat.:** Probable  
**Substrate Material:** Mudstone

**Land Form**

**Rel/Slope Class:** Rolling low hills 30-90m  
**Morph. Type:** Mid-slope  
**Elem. Type:** Hillslope  
**Slope:** 5 %  
**Pattern Type:** Low hills  
**Relief:** No Data  
**Slope Category:** Gently inclined  
**Aspect:** 70 degrees

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

**Erosion:** No Data

**Soil Classification**

**Australian Soil Classification:**  
 Mottled Mesotrophic Black Dermosol Thick Non-gravelly  
 Loamy Clayey Deep

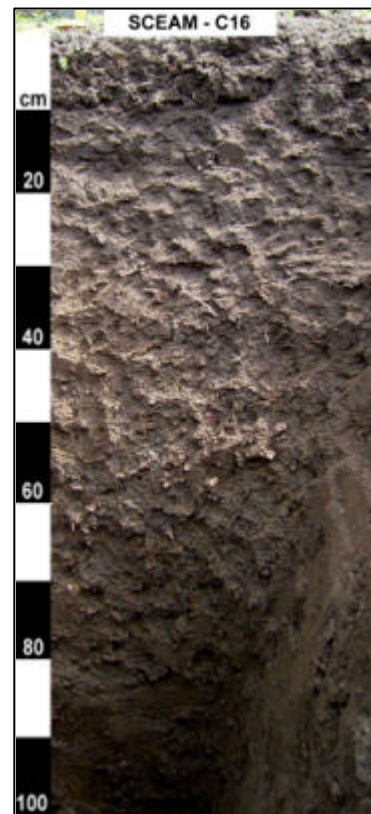
**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:** 2-10%, medium gravelly, 6-20mm



**Profile Morphology**

|      |              |  |
|------|--------------|--|
| A11p | 0 - 0.2 m    | Very dark grey (10YR3/1-Moist); Dark greyish brown (10YR4/2-Dry); Sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Single grain grade of structure; Rough-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Cultivation pan, Weakly cemented, Continuous, Massive; Few, fine (1-2mm) roots; Gradual, Smooth change to - |
| A12p | 0.2 - 0.32 m | Very dark grey (10YR3/1-Moist); Mottles, 2-10%, 0-5mm, Faint, 10YR4/4; Fine sandy loam; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Weak consistence; Non-plastic; Non-sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Few, fine (1-2mm) roots; Clear, Smooth change to -                                  |
| B2   | 0.32 - 0.9 m | Very dark greyish brown (10YR3/2-Moist); Mottles, 10-20%, 5-15mm, Distinct, 10YR4/4; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Moist; Firm consistence; Moderately plastic; Normal plasticity; Very sticky; Few, very fine (0-1mm) roots; Gradual, Smooth change to -   |
| B3   | 0.9 - 1 m    | Very dark grey (2.5Y3/1-Moist); Mottles, 10-20%, 15-30mm, Distinct, 10YR4/4; Mottles, 2-10%, 5-15mm, Distinct, 10YR4/6; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Very plastic; Normal plasticity; Very sticky; Manycutans, >50% of ped faces or walls coated, distinct;   |

**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    |                 |       |                 |           |                   |
| C16<br>0 to 75 mm | 2.52       | 7.2      | 6.6        | 0.12      | 14.23                         | 0.86 | 0.07 | 0.83 | 16.05           | 0.44  | 0.00            | 0.17      | 337               |
| 150 to 225 mm     | 1.54       | 6.8      | 5.9        | 0.07      | 10.45                         | 0.91 | 0.24 | 0.55 | 12.29           | 1.95  | 0.00            | 0.11      | 209               |
| 320 to 600 mm     | 0.79       | 5.0      | 4.2        | 0.04      | 2.13                          | 0.41 | 0.30 | 0.22 | 7.64            | 3.93  | 1.60            | 0.13      | 77                |
| 600 to 900 mm     | 0.47       | 4.7      | 4.1        | 0.06      | 1.29                          | 0.68 | 0.33 | 0.16 | 9.05            | 3.65  | 1.20            | 0.13      | 64                |
| 900 to 1000 mm    | 0.42       | 4.7      | 3.7        | 0.06      | 1.02                          | 1.47 | 0.35 | 0.16 | 10.92           | 3.21  | 0.80            | 0.12      | 57                |