

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
 Project Code: SCEAM Site ID: N40 Observation ID: 1  
 Agency Name: TAS Department of Primary Industries and Water

**Site Information**

Desc. By: H. Hawkins  
 Date Desc.: 29/08/06  
 Map Ref.:  
 Northing/Long.:  
 Easting/Lat.:  
 Locality: Campbell Town  
 Elevation: 209 metres  
 Rainfall: 547  
 Runoff: Very slow  
 Drainage: Poorly drained

**Geology**

Exposure Type: Soil pit  
 Geol. Ref.: Quaternary Alluvium  
 Conf. Sub. is Parent. Mat.: Probable  
 Substrate Material: Alluvium

**Land Form**

Rel/Slope Class: Gently undulating plains <9m  
 1-3%  
 Morph. Type: Flat  
 Elem. Type: Terrace flat  
 Slope: 0 %  
 Pattern Type: Plain  
 Relief: No Data  
 Slope Category: Level  
 Aspect: 0

**Surface Soil Condition (dry):** Self-mulching

**Erosion:** No Data

**Soil Classification**

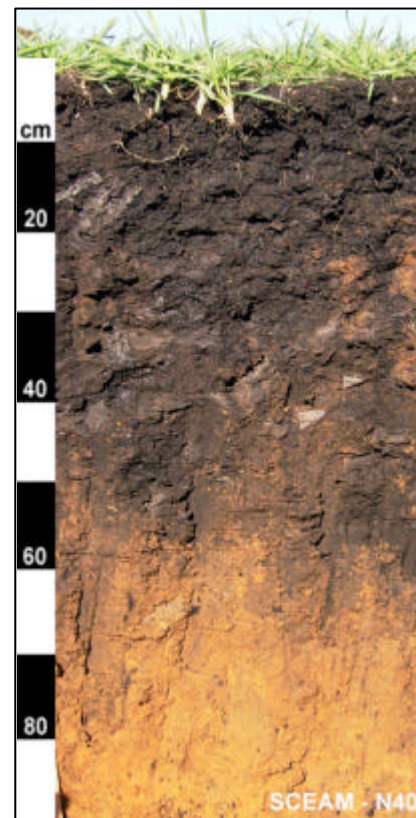
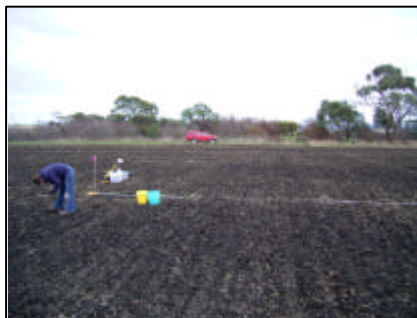
**Australian Soil Classification:**  
 Haplic Self-Mulching Black Vertosol Non-gravelly  
 Medium fine Medium fine Moderately deep

**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:** Pasture/ crop



**Surface Coarse Fragments:** 0-2%, coarse gravelly, 20-60mm, subangular,

**Profile Morphology**

A11p	0 - 0.09 m	Black (10YR2/1-Moist); Light medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, Dolerite, coarse fragments; Many, very fine (0-1mm) roots; Abrupt, Wavy change to -
A12	0.09 - 0.27 m	Black (10YR2/1-Moist); Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; Few cutans, <10% of ped faces or walls coated, prominent; Common, very fine (0-1mm) roots; Clear, Wavy change to -
A13	0.27 - 0.58 m	Black (10YR2/1-Moist); Light medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, prominent; Few, very fine (0-1mm) roots; Diffuse, Wavy change to -
A3	0.58 - 0.78 m	Dark greyish brown (10YR4/2-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10YR5/6; Mottles, 10-20%, 5-15mm, Distinct; Medium clay; Moderate grade of structure, 50-100 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, prominent; Few cutans, <10% of ped faces or walls coated, faint; Clear, Wavy change to -
B22	0.78 - 0.88 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 10-20%, 0-5mm, Distinct, 10YR5/8; Medium heavy clay; Moderate grade of structure, 50-100 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Dolerite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct;

**Site Notes**

N40

			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					
0	to	75 mm	5.51	6.3	5.5	0.11	35.47	14.46	0.62	0.27	50.89	1.22	24.60	0.43	115
140	to	215 mm	5.25	6.3	5.5	0.11	33.22	13.31	0.62	0.21	47.41	1.31	17.50	0.39	91
270	to	580 mm	2.37	7.1	6.1	0.05	23.98	15.12	0.32	0.21	39.67	0.81	1.00	0.17	72
580	to	780 mm	0.59	7.4	6.6	0.04	11.01	10.11	0.22	0.18	21.54	1.02	1.00	0.06	62
780	to	880 mm	0.39	7.1	6.6	0.04	9.63	7.47	0.23	0.17	17.53	1.31	0.40	0.05	60