

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** C32 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** H. Hawkins  
**Date Desc.:** 07/09/06  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**

**Locality:** Forth  
**Elevation:** 130 metres  
**Rainfall:** 1006  
**Runoff:** Rapid  
**Drainage:** Moderately well drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Rolling low hills 30-90m  
**Morph. Type:** Upper-slope  
**Elem. Type:** Hillslope  
**Slope:** 24 %

**Pattern Type:** Low hills  
**Relief:** No Data  
**Slope Category:** Moderately inclined  
**Aspect:** 83 degrees

**Surface Soil Condition (dry):** Recently cultivated

**Erosion:** No Data

**Soil Classification**

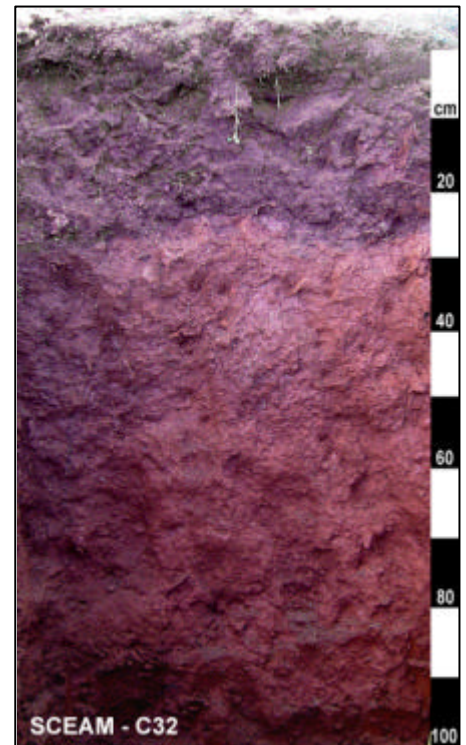
**Australian Soil Classification:**  
 Haplic Eutrophic Red Ferrosol Medium Non-gravelly  
 Clay-loamy Clay-loamy Very deep

**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:** Pasture/ Crop



**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, angular, Basalt

**Profile Morphology**

A11p	0 - 0.06 m	Dark reddish brown (2.5YR2/3-Moist); Dark reddish brown (2.5YR3/4-Dry); Clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Dry; Very weak consistence; Moderately plastic; Normal plasticity; Non-sticky; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
A12	0.06 - 0.28 m	Dark reddish brown (2.5YR3/4-Moist); Dark reddish brown (2.5YR3/3-Dry); Mechanical, 2-10%, 0-5mm, Faint, 2.5YR4/4; Clay loam; Moderate grade of structure, 20-50 mm, Polyhedral; Moderate grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Very plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Basalt, coarse fragments; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21t	0.28 - 0.77 m	Reddish brown (2.5YR4/3-Moist); Clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Concretions, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B22t	0.77 - 1.05 m	Red (2.5YR4/6-Moist); Clay loam; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct;

**Chemistry Data**

C32		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	2.04	6.5	5.6	0.08	13.10	5.13	0.33	2.61	21.23	1.55	70.00	0.28	1162
90	to 165 mm	2.90	6.5	5.6	0.07	12.61	4.94	0.37	1.54	19.53	1.89	51.20	0.26	603
280	to 500 mm	1.09	6.1	5.8	0.06	8.35	2.43	0.44	0.15	11.45	3.84	1.20	0.10	50
500	to 750 mm	0.76	5.8	5.6	0.07	5.76	6.28	0.33	0.13	12.58	2.62	1.50	0.09	46
770	to 1050 mm	1.10	5.0	4.7	0.08	4.19	4.86	0.24	0.15	9.74	2.46	1.30	0.12	60