

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** C25 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** D.B. Kidd  
**Date Desc.:** 01/08/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**  
**Locality:** State forest, near Sassafras  
**Elevation:** 141 metres  
**Rainfall:** 931  
**Runoff:** Very slow  
**Drainage:** Well drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Gently undulating rises 9-30m  
**Pattern Type:** Low hills  
**Morph. Type:** Simple-slope  
**Elem. Type:** Footslope  
**Slope:** 5 %  
**Relief:** No Data  
**Slope Category:** Very gently sloped  
**Aspect:** 70 degrees

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

**Erosion:** No Data

**Soil Classification**

**Australian Soil Classification:**  
 Acidic Mesotrophic Red Ferrosol Medium  
 Moderately gravelly Clay-loamy Clayey Deep

**ASC Confidence:**  
 reasonable confidence.

**Site Disturbance:** Highly disturbed

**Vegetation:**

**Surface Coarse Fragments:** None



**Profile Morphology**

O	-0.01 - 0 m	Organic Layer; (5YR3/3-Moist);
Ap	0 - 0.12 m	Dark reddish brown (5YR3/3-Moist); Clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Weak consistence; Non-plastic; Slightly sticky; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Basalt, coarse fragments; Few, medium (2-5mm) roots; Clear, Smooth change to -
A3	0.12 - 0.28 m	Dark reddish brown (5YR3/4-Moist); Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Weak consistence; Non-plastic; Slightly sticky; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Basalt, coarse fragments; Few, medium (2-5mm) roots; Clear, Smooth change to -
B1t	0.28 - 0.58 m	Yellowish red (5YR4/6-Moist); Light medium clay; Strong grade of structure, 10-20 mm, Prismatic; Strong grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Moderately plastic; Superplastic; Moderately sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, medium (2-5mm) roots; Gradual, Smooth change to -
B2t	0.58 - 0.9 m	Red (2.5YR4/8-Moist); Substrate influence, 2-10%, 5-15mm, Faint, 7.5YR4/6; Medium clay; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Slightly plastic; Superplastic; Moderately sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Few, medium (2-5mm) roots; Clear, Smooth change to -
BC	0.9 - 1 m	Yellowish brown (10YR5/8-Moist); Mottles, 2-10%, 5-15mm, Distinct, 5YR4/6; Rough-ped fabric; Firm consistence;

**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					
0	to	75 mm	4.11	6.0	4.9	0.08	5.07	2.46	0.27	0.31	8.90	3.03	9.50	0.30	114
200	to	275 mm	4.30	6.0	4.9	0.06	4.48	3.14	0.23	0.31	8.85	2.60	9.10	0.25	107
400	to	550 mm	1.15	5.1	4.3	0.04	0.80	2.64	0.29	0.06	4.35	6.66	1.30	0.10	23
600	to	750 mm	0.59	5.0	4.5	0.04	0.86	2.32	0.30	0.07	3.67	8.18	1.30	0.06	29