

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** C58 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** Heather Hawkins **Locality:** near Frankford  
**Date Desc.:** 19/07/06 **Elevation:** 122 metres  
**Map Ref.:** **Rainfall:** 969  
**Northing/Long.:** **Runoff:** Moderately rapid  
**Easting/Lat.:** **Drainage:** Imperfectly drained

**Geology**

**ExposureType:** Soil pit **Conf. Sub. is Parent. Mat.:** Certain  
**Geol. Ref.:** Jurassic Dolerite **Substrate Material:** Dolerite

**Land Form**

**Rel/Slope Class:** Undulating low hills 30-90m **Pattern Type:** Low hills  
 3-10%  
**Morph. Type:** Mid-slope **Relief:** No Data  
**Elem. Type:** Hillslope **Slope Category:** Gently inclined  
**Slope:** 10 % **Aspect:** 163 degrees

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

**Erosion:** Stable, Minor (rill)

**Soil Classification**

**Australian Soil Classification:**  
 Mottled Eutrophic Grey Dermosol Medium Non-gravelly  
 Clayey Clayey Deep

**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Extensive clearing

**Vegetation:** Radiata Pine

**Surface Coarse Fragments:** 20-50%, cobbly, 60-200mm, subangular tabular, Dolerite



**Profile Morphology**

A1	0 - 22 m	Dark greyish brown (2.5Y4/2-Moist); Mottles, 0-2%, 0-5mm, Faint, 10YR5/6; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; Many (20 - 50 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Abrupt, Smooth
B21t	22 - 51 m	Dark grey (2.5Y4/1-Moist); Mottles, 10-20%, 5-15mm, Prominent, 10YR6/8; Medium clay (Light); Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm <sup>2</sup> ) macropores, Common (1-5 per 100mm <sup>2</sup> ) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Common, very fine (0-1mm) roots; Common, coarse (>5mm) roots; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B22t	51 - 79 m	Grey (2.5Y5/1-Moist); Mottles, 20-50%, 5-15mm, Prominent, 10YR5/8; Medium heavy clay; Moderate grade of structure, 100-200 mm, Angular blocky; Moderate grade of structure, 50-100 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; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B3t	79 - 100 m	Grey (2.5Y5/1-Moist); Substrate influence, 20-50%, 30-mm, Prominent, 10YR4/6; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 20-50 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; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Dolerite, coarse fragments; Few, very fine (0-1mm) roots;

**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					
C58 0 to 75 mm	3.38	5.6	4.9	0.05	6.75	5.59	0.21	0.25	13.12	1.60	3.80	0.21	99
150 to 225 mm	1.37	5.8	5.1	0.04	4.82	5.59	0.20	0.17	10.93	1.83	1.70	0.13	62
250 to 500 mm	0.98	6.1	4.9	0.04	7.02	10.55	0.32	0.10	18.22	1.76	1.20	0.10	40
550 to 750 mm	0.56	6.1	5.0	0.05	10.70	17.37	0.52	0.10	28.79	1.81	0.40	0.07	32
800 to 1000 mm	0.30	6.5	5.3	0.07	14.67	20.64	0.76	0.11	36.23	2.10	0.30	0.05	42