

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N9 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** C.J. Grose  
**Date Desc.:** 25/07/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**  
**Locality:** Tunbridge  
**Elevation:** 220  
**Rainfall:** 400  
**Runoff:** Slow  
**Drainage:** Moderately well drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Gently undulating plains <9m  
 1-3%  
**Pattern Type:** Plain  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 3 %  
**Relief:** No Data  
**Slope Category:** Very gently sloped  
**Aspect:** 225 degrees

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

**Erosion:** No Data

**Soil Classification**

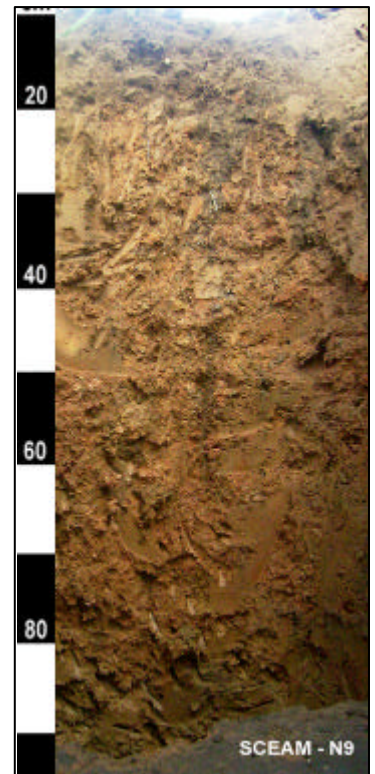
**Australian Soil Classification:**  
 Eutrophic Subnatic Brown Sodosol Medium Non-gravelly  
 Loamy Clayey Deep

**ASC Confidence:**  
 Analytical data are complete.

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

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



**Profile Morphology**

Ap	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Sandy loam; Weak grade of structure, 2-5 mm, Granular; crack; Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Ferricrete, coarse fragments; Few, very fine (0-1mm) roots; Sharp, Wavy change to -
B1	0.1 - 0.35 m	Dark yellowish brown (10YR4/4-Moist); Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Ferricrete, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, fine (1-2mm) roots; Clear, Wavy change to -
B21c	0.35 - 0.65 m	Brown (10YR4/3-Moist); Mottles, 2-10%, 5-15mm, Faint, 10YR5/4; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Ferricrete, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Gradual, Wavy change to -
B22t	0.65 - 0.9 m	Dark yellowish brown (10YR4/5-Moist); Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Many cutans, >50% of ped faces or walls coated, distinct; Clear, Wavy change to -
B3	0.9 - 1.05 m	Yellowish brown (10YR5/4-Moist); Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Many cutans, >50% of ped faces or walls coated, distinct;

**Chemistry**

			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						
N9	0	to	75 mm	2.60	6.7	6.0	0.11	9.28	4.50	0.63	0.50	15.07	4.18	15.00	0.20	193
	125	to	200 mm	1.51	6.4	5.4	0.10	6.78	8.61	1.50	0.35	17.35	8.65	3.20	0.12	131
	35	to	65 mm	0.78	7.9	7.2	0.24	9.91	15.58	4.17	0.65	30.33	13.75	0.70	0.07	238
	65	to	90 mm	0.50	8.2	7.8	0.41	9.19	16.82	6.84	0.64	33.51	20.41	0.70	0.06	244
	90	to	105 mm	0.27	8.0	7.7	0.78	6.98	16.67	8.35	0.47	32.49	25.70	1.00	0.04	190