

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N17 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** R. Moreton  
**Date Desc.:** 20/09/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**

**Locality:** near Fingal  
**Elevation:** 224 metres  
**Rainfall:** 616  
**Runoff:** Moderately rapid  
**Drainage:** Imperfectly drained

**Geology**

**Exposure Type:** Soil pit  
**Geol. Ref.:** Ts  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** Soil pit

**Land Form**

**Rel/Slope Class:** Gently undulating plains <9m  
 1-3%  
**Morph. Type:** Flat  
**Elem. Type:** Terrace flat  
**Slope:** 3 %

**Pattern Type:** Terraced land (alluvial)  
**Relief:** No Data  
**Slope Category:** Very gently sloped  
**Aspect:** 320 degrees

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

**Erosion:** None

**Soil Classification**

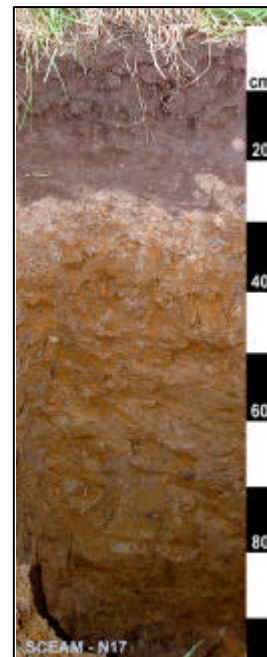
**Australian Soil Classification:**  
 Eutrophic Mottled-Subnatric Brown Sodosol Thick  
 Non-gravelly Loamy Clayey Deep

**ASC Confidence:**  
 Reasonable confidence.

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments



**Profile Morphology**

Ap	0 - 0.22 m	Dark brown (10YR3/3-Moist); Fine sandy loam; Moderate grade of structure, 2-5 mm, Polyhedral; Weak grade of structure, 5-10 mm, Polyhedral; Sandy (grains prominent) fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Non-plastic; Slightly sticky; Common, very fine (0-1mm) roots; Abrupt, Irregular change to -
A2	0.22 - 0.32 m	Yellowish brown (10YR5/4-Moist); Mechanical, 2-10%, 0-5mm, Distinct, 7.5YR5/8; Mottles, 2-10%, 5-15mm, Distinct, 10YR3/3; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Nodules, Coarse (6 - 20 mm) segregations; Densipan, Weakly cemented, Continuous, Massive; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B1t	0.32 - 0.7 m	Yellowish brown (10YR5/6-Moist); Mottles, 2-10%, 5-15mm, Faint, 10YR5/4; Medium clay; Massive grade of structure; Smooth-ped fabric; Moist; Weak consistence; Very plastic; Normal plasticity; Very sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Gradual, Smooth change to -
B2t	0.7 - 0.98 m	Yellowish brown (10YR5/6-Moist); Mottles, 10-20%, 5-15mm, Faint, 10YR5/4; Medium clay; Massive grade of structure; Smooth-ped fabric; Moderately moist; Firm consistence; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls

**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					
N17 0 to 75 mm	1.74	6.8	6.2	0.10	6.48	0.94	0.10	0.38	8.15	1.23	49.10	0.14	149
200 to 275 mm	1.16	6.6	5.9	0.06	4.22	0.79	0.08	0.26	5.53	1.45	33.40	0.08	106
320 to 700 mm	0.57	6.1	4.8	0.06	4.27	11.37	1.34	0.32	17.67	7.58	1.00	0.06	119
700 to 980 mm	0.33	7.0	5.6	0.05	1.71	10.01	1.65	0.22	13.71	12.04	0.70	0.03	87