

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** S21 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** D.B. Kidd **Locality:** Near Hamilton  
**Date Desc.:** 25/05/05 **Elevation:** 89 metres  
**Map Ref.:** **Rainfall:** 534  
**Northing/Long.:** **Runoff:** Slow  
**Easting/Lat.:** **Drainage:** Poor

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

**Land Form**  
**Rel/Slope Class:** Rolling low hills 30-90m 10-32% **Pattern Type:** Hills  
**Morph. Type:** Lower-slope **Relief:** No Data  
**Elem. Type:** Foothlope **Slope Category:** Very gently sloped  
**Slope:** 4 % **Aspect:** 238 degrees

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

**Erosion:** No Data

**Soil Classification**

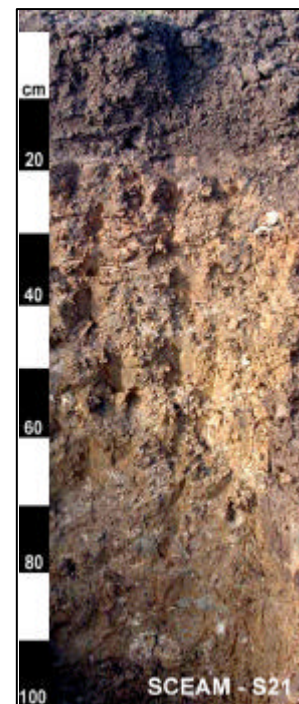
**Australian Soil Classification:**  
 Eutrophic Class Undetermined Brown Sodosol Medium  
 Non-gravelly Clay-loamy Clayey Deep

**ASC Confidence:**  
 All necessary analytical data are available.

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

**Vegetation:**

**Surface Coarse Fragments:** None



**Profile Morphology**

A1p	0 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); Fine sandy clay loam (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Non-plastic; Non-sticky; Field pH 6.9 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
A2	0.18 - 0.23 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20%, 0-5mm, Prominent, 7.5YR4/4; Sandy loam (Heavy); Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Non-plastic; Slightly sticky; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B2t	0.23 - 0.62 m	Brown (7.5YR4/3-Moist); Mottles, 20-50%, 15-30mm, Prominent, 5YR4/6; Medium heavy clay; Massive grade of structure; Moderately moist; Firm consistence; Moderately plastic; Subplastic; Non-sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, Dolerite, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Nodules, Coarse (6 - 20 mm) segregations; Field pH 8.4 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
BC	0.62 - 100 m	Brownish yellow (10YR6/6-Moist); Mottles, 20-50%, 15-30mm, Prominent, 2.5Y6/2; Medium heavy clay; Massive grade of structure; Moderately moist; Firm consistence; Moderately plastic; Subplastic; Slightly sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, Dolerite, coarse fragments; Many (20 - 50 %), Calcareous, Nodules, Coarse (6 - 20 mm) segregations; Field pH 8.8 (pH meter);

**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 P (mg/kg)
							Ca	Mg	Na	K					
S21	0	to 75 mm	2.31	6.8	5.9	0.11	9.90	4.53	0.66	0.50	15.65	4.22	16.80	0.24	203
	150	to 225 mm	0.84	7.0	5.8	0.10	11.40	10.45	1.78	0.59	24.26	7.34	1.30	0.15	215
	380	to 580 mm	0.58	8.1	7.3	0.32	19.51	13.19	4.82	0.70	38.24	12.60	1.50	0.07	252
	700	to 900 mm	0.16	8.9	8.0	0.27	14.29	10.82	2.39	0.62	28.14	8.49	1.00	0.02	245