

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N23 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** R. Moreton **Locality:** near Lilydale  
**Date Desc.:** 29/11/05 **Elevation:** 171 metres  
**Map Ref.:** **Rainfall:** 958  
**Northing/Long.:** **Runoff:** Rapid  
**Easting/Lat.:** **Drainage:** Moderately well drained

**Geology**

**ExposureType:** Soil pit **Conf. Sub. is Parent. Mat.:** Probable  
**Geol. Ref.:** No Data **Substrate Material:** Mudstone

**Land Form**

**Rel/Slope Class:** Rolling low hills 30-90m 10-32% **Pattern Type:** Low hills  
**Morph. Type:** Mid-slope **Relief:** No Data  
**Elem. Type:** Hillslope **Slope Category:** Moderately inclined  
**Slope:** 18 % **Aspect:** No Data

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

**Erosion:** No Data

**Soil Classification**

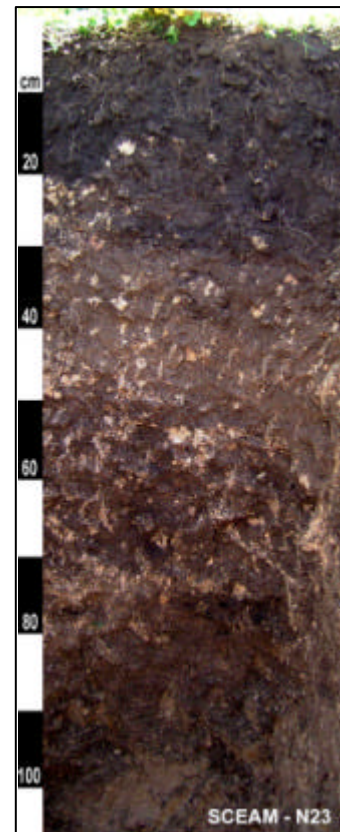
**Australian Soil Classification:**  
 Melanic Eutrophic Black Dermosol, Medium Non-gravelly  
 Clay-loamy Clayey Deep

**ASC Confidence:**  
 Reasonable confidence

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

**Vegetation:** Cleared

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



**Profile Morphology**

A11	0 - 0.18 m	Black (10YR2/1-Moist); Clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Common, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.18 - 0.3 m	Black (10YR2/1-Moist); Substrate influence, 0-2%, 5-15mm, Prominent, 2.5Y6/4; Clay loam; Strong grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Mudstone, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth
B1t	0.3 - 0.52 m	Dark greyish brown (2.5Y4/2-Moist); Substrate influence, 10-20%, 5-15mm, Prominent, 2.5Y6/4; Mottles, 2-10%, 0-5mm, Faint, 10YR4/6; Medium clay (Light); Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Mudstone, coarse fragments; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B2t	0.52 - 1 m	Very dark greyish brown (10YR3/2-Moist); Substrate influence, 10-20%, 5-15mm, Prominent, 2.5Y6/4; Mottles, 2-10%, 0-5mm, Faint, 10YR4/6; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Mudstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Abrupt, Smooth change to -
BC	1 - 1.2 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 10-20%, 5-15mm, Prominent, 10YR6/8; Massive grade of structure; Moderately moist; Strong 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					
N23	0	to 75 mm	3.56	6.1	5.1	0.08	12.90	4.87	0.18	1.40	19.57	0.92	17.80	0.34	557
	200	to 275 mm	2.20	6.0	5.0	0.05	10.23	5.23	0.21	0.98	16.93	1.24	8.60	0.21	381
	300	to 520 mm	0.38	5.9	4.6	0.04	16.45	15.26	0.33	0.70	33.96	0.97	1.50	0.07	293
	600	to 900 mm	0.44	5.5	4.2	0.04	11.27	14.30	0.46	0.74	39.22	1.17	0.50	0.08	322
	1000	to 1200 mm	0.24	5.1	3.9	0.04	5.50	11.21	0.45	0.65	38.43	1.17	0.70	0.04	307