

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N18 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** R. Moreton  
**Date Desc.:** 26/09/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**  
**Locality:** Fingal  
**Elevation:** 235 metres  
**Rainfall:** 700  
**Runoff:** Slow  
**Drainage:** Poorly drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Gently undulating plains <9m 1-3%  
**Morph. Type:** Flat  
**Elem. Type:** Terrace flat  
**Slope:** 1 %  
**Pattern Type:** Terrace (alluvial)  
**Relief:** No Data  
**Slope Category:** Level  
**Aspect:** 160 degrees

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

**Erosion:** No Data

**Soil Classification**

**Australian Soil Classification:**  
 Ferric-Sodic Eutrophic Grey Dermosol 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:** No surface coarse fragments



**Profile Morphology**

1Ap	0 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); Biological mixing, 2-10%, 5-15mm, Distinct, 10YR4/2; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Moderate grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common, very fine (0-1mm) roots; Clear, Irregular change to -
1B1t	0.18 - 0.4 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10-20%, 5-15mm, Distinct, 10YR4/4; Mottles, 0-2%, 0-5mm, Prominent, 7.5YR4/4; Light clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
1B2t	0.4 - 0.5 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10-20%, 5-15mm, Prominent, 10YR5/6; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Ferromanganiferous, Soft segregations, Medium (2 -6 mm) segregations; Abrupt, Smooth change to -
2A1t	0.5 - 0.7 m	Very dark grey (10YR3/1-Moist); Mottles, 10-20%, 5-15mm, Distinct, 10YR4/4; Mottles, 2-10%, 0-5mm, Distinct, 10YR5/3; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; Gradual, Tongued change to -
2B1b	0.7 - 0.95 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 0-5mm, Distinct, 10YR5/6; Mottles, 2-10%, 0-5mm, Distinct, 10YR5/3; Fine sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, prominent; Gradual, Smooth change to -
2B2b	0.95 - 1.04 m	(10YR4/4-Moist); Mottles, 2-10%, 0-5mm, Distinct, 10YR5/6; Sandy light clay; Massive grade of structure; Smooth-ped fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky;

**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					
0	to	75 mm	3.62	5.7	5.1	0.17	9.60	2.28	0.23	0.47	12.92	1.78	36.70	0.29	209
200	to	275 mm	2.11	5.3	4.5	0.12	5.54	2.09	0.23	0.30	9.00	2.56	16.80	0.18	128
400	to	500 mm	0.69	6.9	5.4	0.05	3.57	6.44	1.25	0.16	11.48	10.89	1.50	0.08	78
500	to	650 mm	0.69	7.6	6.3	0.07	5.22	9.36	2.16	0.22	16.98	12.72	2.10	0.09	90
750	to	900 mm	0.49	7.9	6.7	0.10	3.92	6.37	2.25	0.13	12.69	17.73	3.70	0.05	65