Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N22 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 18/07/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Cressy.
Elevation: 160 metres
Rainfall: 770
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tertiary Sediments
Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Sandstone

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Terrace plain
Slope: 1 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 30 degrees

Surface Soil Condition (dry): Soft, Surface crust

Erosion: Stable, Minor or present (wind);

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Brown Dermosol Medium Non-gravelly Clay-loamy Clayey Deep

ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture/ crop

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.18 m	Dark brown (10YR3/3-Moist); Sandy clay loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; Non-plastic; Non-sticky; Field pH 6.9 (pH meter); Few, fine (1-2mm) roots; Clear, Irregular change to -
A12p	0.18 - 0.24 m	Light olive brown (2.5Y5/4-Moist); Mechanical, 2-10%, 15-30mm, Prominent, 10YR3/3; Mottles, 0-2%, 5-15mm, Distinct, 10YR5/6; Loamy sand; Single grain grade of structure; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; Non-plastic; Non-sticky; Field pH 6.9 (pH meter); Few, fine (1-2mm) roots; Gradual, Irregular change to -
A2	0.24 - 0.4 m	Greyish brown (2.5Y5/3-Moist); Mottles, 2-10%, 5-15mm, Distinct, 2.5Y5/4; Mottles, 2-10%, 5-15mm, Distinct, 10YR5/6; Loamy sand; Single grain grade of structure; Smooth-ped fabric; Moist; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.3 (pH meter); Abrupt, Smooth change to -
B21	0.4 - 0.65 m	Olive brown (2.5Y4/4-Moist); Mottles, 10-20%, 5-15mm, Prominent, 7.5YR4/6; Mottles, 0-2%, 0-5mm, Distinct, 2.5Y4/2; Clayey sand; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; Non-plastic; Slightly sticky; Other pans, Uncemented, Continuous, Massive; Clear, Wavy change to -
B22t	0.65 - 0.8 m	Strong brown (7.5YR4/6-Moist); Mottles, 10-20%, 15-30mm, Distinct, 2.5Y4/4; Mottles, 0-2%, 0-5mm, Distinct, 2.5Y4/2; Sandy light clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Gradual, Smooth change to -
B3	0.8 - 1.05 m	Strong brown (7.5YR4/6-Moist); Mottles, 2-10%, 5-15mm, Distinct, 2.5Y4/4; Sandy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; Very plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Ferromanganiferous, Soft segregations, Medium (2 -6 mm) segregations;

Chemistry Data

				Organic C%	pH (H20)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g) Ca	Mg	Na	K	ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
22																
0	to	75	mm	0.54	5.9	4.9	0.03	2.06	0.38	0.09	0.13	2.96	3.04	10.20	0.03	49
200	to	275	mm	1.46	6.8	6.4	0.09	6.49	0.60	0.13	0.19	7.53	1.73	29.00	0.10	82
400	to	650	mm	0.24	6.2	5.9	0.07	5.22	3.48	0.18	0.20	9.10	1.98	0.80	0.03	77
650	to	800	mm	0.28	6.5	6.2	0.06	6.68	5.33	0.18	0.25	12.46	1.45	1.10	0.04	90