Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N11 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 12/07/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Winnaleah.
Elevation: 171 metres
Rainfall: 1066
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tertiary Basalt
Conf. Sub. is Parent. Mat.: Certain
Substrate Material: Basalt

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Simple-slope
Elem. Type: Hillslope
Slope: 2 %
Pattern Type: Hills
Relief: No Data
Slope Category: Very gently sloped
Aspect: 250 degrees

Surface Soil Condition (dry): Soft

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:
Ferric-Sodic Dystrophic Brown Dermosol Medium Slightly gravelly Clay-loamy Clayey Deep
ASC Confidence:
All necessary analytical data are available

Site Disturbance: Complete clearing. Pasture

Vegetation:

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm

Profile Morphology

A1	0 - 0.19 m	Very dark greyish brown (10YR3/2-Moist); Clay loam; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Cultivation pan, Weakly cemented, Continuous, Massive; Field pH 6.8 (pH meter); Common, very fine (0-1mm) roots; Clear, Irregular change to -
B11	0.19 - 0.35 m	Brown (10YR4/3-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10YR4/4; Silty clay loam; Moderate grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common (10 - 20 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Field pH 6.9 (pH meter); Few, very fine (0-1mm) roots; Gradual, Wavy change to
B12	0.35 - 0.85 m	Dark greyish brown (10YR4/2-Moist); Mottles, 0-2%, 5-15mm, Distinct, 10YR4/4; Light clay; Moderate grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common (10 - 20 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B2	0.85 - 1.1 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 0-2%, 5-15mm, Distinct, 10YR4/6; Light clay; Weak grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; Many (20 - 50 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Field pH 6.6 (pH meter);

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)
N11																
0	to	75	mm	3.77	5.8	4.9	0.11	6.60	1.69	0.15	0.56	9.31	1.61	27.40	0.30	222
200	to	275	mm	2.59	5.5	4.6	0.06	4.32	0.83	0.12	0.21	6.00	2.00	16.20	0.22	82
400	to	800	mm	0.79	5.1	4.7	0.05	0.42	0.34	0.10	0.06	2.06	4.86	3.00	0.06	28
850	to	1100	mm	0.56	5.2	4.7	0.05	0.65	0.68	0.15	0.06	2.04	7.36	2.60	0.08	28