

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N21 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton **Locality:** Cressy.
Date Desc.: 01/08/05 **Elevation:** 149 metres
Map Ref.: **Rainfall:** 649
Northing/Long.: **Runoff:** Moderately rapid
Easting/Lat.: **Drainage:** Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% **Pattern Type:** Low hills
Morph. Type: Upper-slope **Relief:** No Data
Elem. Type: Hillslope **Slope Category:** Very gently sloped
Slope: 3% **Aspect:** 340 degrees

Surface Soil Condition (dry): Loose

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Manganic Eutrophic Brown Dermosol Medium Non-gravelly
 Loamy Clayey Deep

ASC Confidence:
 All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture/ crop

Vegetation:

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm



Profile Morphology

Ap	0 - 0.24 m	Dark brown (7.5YR3/2-Moist); Loam; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Loose consistence; Non-plastic; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Common (10 - 20 %), Manganiferous, Nodules, Medium (2 -6 mm) segregations; Field pH 7.4 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B1c	0.24 - 0.4 m	Brown (7.5YR4/4-Moist); Mottles, 10-20%, 0-5mm, Distinct, 5YR3/4; Clay loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Normal plasticity; Very sticky; 0-2%, coarse gravelly, 20-60mm, angular, dispersed, coarse fragments; Many (20 - 50 %), Manganiferous, Nodules, Medium (2 -6 mm) segregations; Field pH 7.4 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21c	0.4 - 0.63 m	Brown (7.5YR4/4-Moist); Mottles, 10-20%, 0-5mm, Distinct, 5YR3/4; Clay loam (Light); Weak grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Normal plasticity; Very sticky; 2-10%, cobbly, 60-200mm, angular, dispersed, coarse fragments; Many (20 - 50 %), Manganiferous, Nodules, Medium (2 -6 mm) segregations; Field pH 7.4 (pH meter); Sharp, Smooth change to -
B22	0.63 - 1.2 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 20-50%, 15-30mm, Prominent, 2.5YR4/4; Medium clay (Light); Massive grade of structure; Weak grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Weak consistence; Very plastic; Normal plasticity; Very sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.8 (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_K (mg/kg)
							Ca	Mg	Na	K					
N21	0	to 75 mm	1.96	6.3	5.6	0.10	8.55	1.50	0.12	0.41	10.63	1.13	18.30	0.16	163
	0	to 240 mm	2.13	6.6	6.1	0.17	10.25	2.14	0.15	0.54	13.10	1.14	24.90	0.17	242
	200	to 275 mm	1.59	6.3	5.6	0.11	8.50	1.68	0.16	0.30	10.69	1.50	10.00	0.15	127
	240	to 400 mm	0.35	6.4	5.9	0.04	3.09	2.99	0.21	0.11	6.41	3.28	2.40	0.05	51
	400	to 630 mm	0.41	6.7	6.0	0.06	3.59	4.19	0.29	0.11	8.20	3.54	2.90	0.05	46
	630	to 1200 mm	0.33	6.5	6.0	0.05	6.02	8.69	0.54	0.14	15.43	3.50	1.50	0.05	62