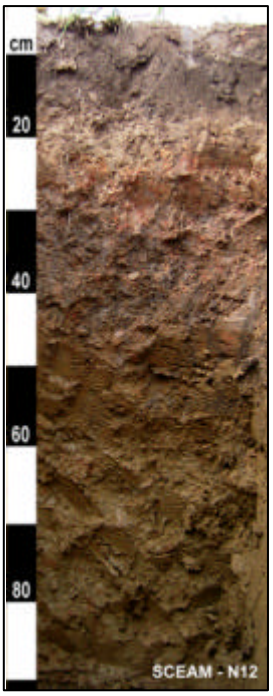
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N12 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 21/09/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Near Cressy
Elevation: 158 metres
Rainfall: 600
Runoff: Slow
Drainage: Poorly drained



Geology

ExposureType: Soil pit
Geol. Ref.: Qa

Conf. Sub. is Parent. Mat.: Probable
Substrate Material: 0.8 m deep

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Simple-slope
Elem. Type: Terrace flat
Slope: 3 %

Pattern Type: Terraced land (alluvial)
Relief: No Data
Slope Category: Very gently sloped
Aspect: 1 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
Vertic Mottled-Subnatric Brown Sodosol Medium Non-gravelly Loamy Clayey Deep

ASC Confidence:
Reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: Pasture/ crop

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); Fine sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Non-plastic; Non-sticky; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2	0.18 - 0.24 m	Light brownish grey (2.5Y6/3-Moist); Clayey sand; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Non-plastic; Non-sticky; Many (20 - 50 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Silcrete, Weakly cemented, Discontinuous, Massive; Common, very fine (0-1mm) roots;
B21t	0.24 - 0.46 m	Brown (10YR4/3-Moist); Mottles, 10-20%, 5-15mm, Prominent, 10R4/8; Mottles, 10-20%, 5-15mm, Prominent, 10YR4/1; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B22t	0.46 - 0.72 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10R4/8; Mottles, 2-10%, 5-15mm, Faint, 10YR4/1; Medium heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Rough-ped fabric; Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Gradual, Smooth change to -
B23t	0.72 - 0.9 m	Light olive brown (2.5Y5/4-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10YR4/8; Heavy clay; Massive grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct;

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)
N12																
0	to	75	mm	2.46	6.6	6.0	0.26	9.95	2.36	0.48	0.44	13.26	3.62	29.90	0.22	194
200	to	275	mm	1.19	6.3	5.5	0.12	6.25	4.02	0.61	0.23	11.16	5.47	7.50	0.12	89
300	to	450	mm	1.30	5.6	5.0	0.22	4.84	11.91	2.52	0.17	19.51	12.92	0.60	0.12	63
460	to	700	mm	0.42	6.2	5.8	0.40	3.04	12.15	4.59	0.17	19.98	22.97	0.70	0.06	69
700	to	900	mm	0.42	6.4	6.1	0.55	3.96	11.89	5.21	0.22	21.31	24.45	0.60	0.04	75