

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S15 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
 Date Desc.: 09/03/06
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:

Locality: Near Ouse
 Elevation: 140 metres
 Rainfall: 600
 Runoff: Moderately rapid
 Drainage: No Data

Geology

Exposure Type: Soil pit
 Geol. Ref.: Qa

Conf. Sub. is Parent. Mat.: No Data
 Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m
 3-10%

Pattern Type: Hills

Morph. Type: Mid-slope
 Elem. Type: Hillslope
 Slope: 4 %

Relief: No Data
 Slope Category: Gently inclined
 Aspect: 210 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (rill)

Soil Classification

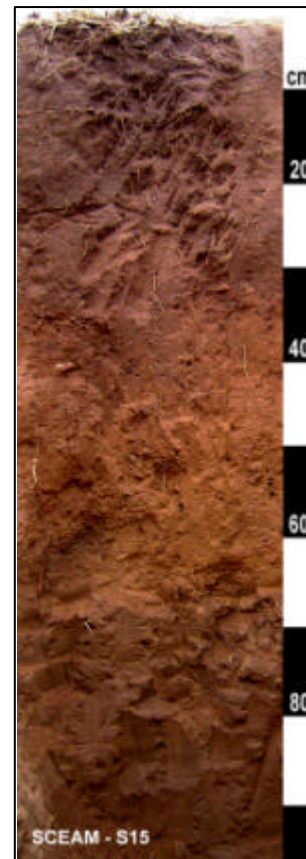
Australian Soil Classification:
 Mottled Mesotrophic Brown Chromosol Thick Non-gravelly
 Loamy Clayey Very deep

ASC Confidence:
 reasonable confidence.

Site Disturbance: Complete clearing.

Vegetation: Pasture

Surface Coarse Fragments: None



Profile Morphology

Ap	0 - 0.12 m	Brown (10YR4/3-Moist); Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Common, very fine (0-1mm) roots; Abrupt change to -
A12	0.12 - 0.21 m	Brown (10YR4/3-Moist); Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Non-plastic; Non-sticky; Common, very fine (0-1mm) roots; Clear change to -
A13	0.21 - 0.34 m	Brown (10YR4/3-Moist); Mechanical, 2-10%, 0-5mm, Faint; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Non-plastic; Slightly sticky; Very few (0 - 2 %), Ferromanganiferous, Nodules, Medium (2 - 6 mm) segregations; Common, very fine (0-1mm) roots; Clear change
A2	0.34 - 0.65 m	Dark yellowish brown (10YR4/4-Moist); Brownish yellow (10YR6/6-Dry); Mechanical, 2-10%, 0-5mm, Faint; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Non-plastic; Non-sticky; Few (2 - 10 %), Ferromanganiferous, Nodules, Coarse (6 - 20 mm) segregations; Few, fine (1-2mm) roots; Sharp change to -
B2	0.65 - 0.97 m	Strong brown (7.5YR4/6-Moist); Mottles, 10-20%, 15-30mm, Distinct, 10YR3/2; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very firm consistence; Very plastic; Normal plasticity; Moderately sticky; Many (20 - 50 %), Ferromanganiferous, Laminae, segregations; Few, very fine (0-1mm) roots;

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					
S15	0	to 75 mm	1.49	6.0	5.3	0.07	6.18	2.30	0.17	0.66	9.49	1.79	44.50	0.12	259
	120	to 210 mm	1.43	5.4	4.6	0.05	4.06	1.04	0.08	0.73	6.35	1.26	62.90	0.13	345
	200	to 275 mm	0.65	6.0	5.1	0.04	5.08	1.33	0.15	0.23	6.85	2.19	16.70	0.09	108
	340	to 650 mm	0.33	6.5	5.9	0.05	5.44	1.57	0.14	0.31	7.46	1.88	6.30	0.04	169
	650	to 970 mm	0.32	7.8	6.5	0.06	9.32	11.18	0.88	0.34	21.74	4.05	1.00	0.04	150