

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N16 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 09/05/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Near Cressy
Elevation: 165 metres
Rainfall: 601
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Quaternary Terraces
Conf. Sub. is Parent. Mat.: Reasonable
Substrate Material: Tertiary Sediments

Land Form

Rel/Slope Class: Undulating low hills 30-90m
Pattern Type: Low hills
Morph. Type: No Data
Relief: No Data
Elem. Type: Hillslope
Slope Category: Very gently sloped
Slope: 4 %
Aspect: 52 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

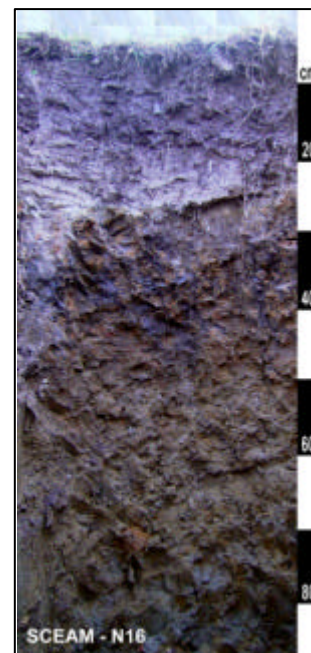
Australian Soil Classification:
 Eutrophic Mottled-Subnatric Brown Sodosol, Medium Slightly gravelly Loamy Clayey Deep

ASC Confidence:
 Reasonable confidence.

Site Disturbance: No effective disturbance

Vegetation: Pasture/ crop

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



Profile Morphology

AP	0 - 0.18 m	Very dark brown (10YR2/2-Moist); Fine sandy loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Very weak consistence; Non-plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Dolerite, coarse fragments; Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A2e	0.18 - 0.24 m	Dark greyish brown (10YR4/2-Moist); Light grey (10YR7/2-Dry); Biological mixing, 0-2%, 5-15mm, Distinct, 10YR2/2; Clayey fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; Few, very fine (0-1mm) roots; Sharp, Smooth change to -
B1t	0.24 - 0.43 m	Very dark grey (10YR3/1-Moist); Mottles, 20-50%, 15-30mm, Distinct, 7.5YR5/8; Mottles, 2-10%, 5-15mm, Prominent, 5YR4/6; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moist; Weak consistence; Very plastic; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B21t	0.43 - 0.64 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 5-15mm, Distinct, 10YR4/6; Medium clay; Massive grade of structure; Smooth-ped fabric; Moist; Firm consistence; Very plastic; Moderately sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Dolerite, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Nodules, Medium (2 - 6 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22t	0.64 - 0.9 m	Brown (10YR4/3-Moist); Mottles, 10-20%, 30-mm, Distinct, 2.5Y4/2; Mottles, 2-10%, 5-15mm, Distinct, 10YR4/6; Sandy medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; Slightly plastic; Very sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Dolerite, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Nodules, Coarse (6 - 20 mm) segregations; Gradual, Smooth change to -
B3	0.9 - 1.1 m	Light olive brown (2.5Y5/6-Moist); Mottles, 10-20%, 15-30mm, Distinct, 2.5Y5/6; Sandy light clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; Slightly plastic; Very sticky; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, Dolerite, coarse

Chemistry Data

N16

			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					
0	to	75 mm	1.82	7.3	6.5	0.09	7.44	1.06	0.12	0.32	8.98	1.34	0.00	0.15	142
150	to	225 mm	0.95	6.7	5.9	0.06	3.68	0.93	0.18	0.11	4.92	3.66	7.80	0.08	53
250	to	400 mm	1.06	6.2	5.5	0.12	3.99	14.40	2.19	0.15	20.89	10.48	0.60	0.09	58
450	to	600 mm	0.56	6.9	6.1	0.12	2.99	12.20	2.20	0.11	17.53	12.55	0.80	0.06	47
650	to	900 mm	0.21	7.8	6.9	0.17	2.34	9.63	2.71	0.10	14.80	18.31	1.70	0.02	42