

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S20 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
 Date Desc.: 17/05/06
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: New Norfolk.
 Elevation: 39 metres
 Rainfall: 538
 Runoff: Moderately rapid
 Drainage: Moderately well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Quaternary Alluvium
 Conf. Sub. is Parent. Mat.: Probable
 Substrate Material: Sandstone

Land Form

Rel/Slope Class: Gently undulating plains <9m
 1-3%
 Morph. Type: Flat
 Elem. Type: Terrace flat
 Slope: 2 %
 Pattern Type: Alluvial plain
 Relief: No Data
 Slope Category: Very gently sloped
 Aspect: 50 degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Haplic Eutrophic Brown Dermosol Medium Non-gravelly
 Clay-loamy Clayey Deep

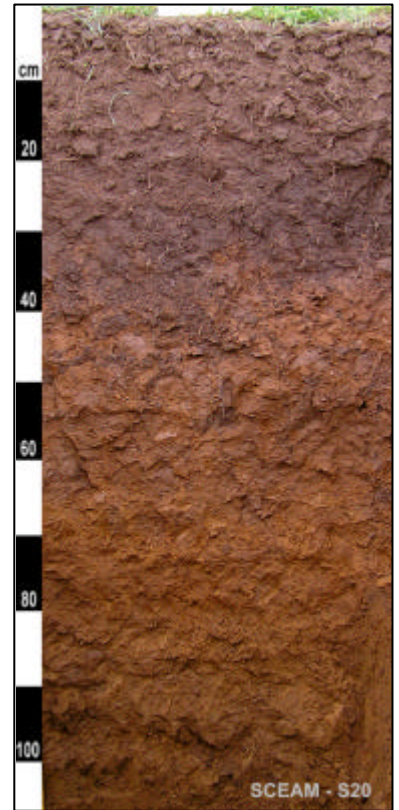
ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: Crop/ pasture

Surface Coarse Fragments: No surface coarse fragments



Profile Morphology

- A1 0 - 0.32 m Very dark grey (10YR3/1-Moist); Fine sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate 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; Weak consistence; Slightly plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Dolerite, coarse fragments; Common, very fine (0-1mm) roots; Clear, Smooth change to -
- A3 0.32 - 0.42 m Very dark grey (10YR3/1-Moist); Mechanical, 10-20%, 15-30mm, Distinct, 7.5YR4/3; Mechanical, 2-10%, 15-30mm, Distinct, 7.5YR4/4; Clay loam, fine sandy; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate 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; Weak consistence; Moderately plastic; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
- B1t 0.42 - 0.89 m Brown (7.5YR4/4-Moist); Mottles, 10-20%, 5-15mm, Distinct, 7.5YR3/2; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
- B2t 0.89 - 1.05 m Strong brown (7.5YR4/6-Moist); Mottles, 10-20%, 5-15mm, Distinct, 7.5YR3/3; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Moderately plastic; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Clear, Wavy change to -
- B3t 1.05 - 1.2 m Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 0-5mm, Faint, 10YR4/3; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Earthy fabric; Moist; Weak consistence; Very plastic; Very sticky;

Chemistry Data

S20

			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	2.07	6.9	6.1	0.12	15.42	2.02	0.10	1.46	19.03	0.53	85.50	0.27	589
200	to	275 mm	1.45	7.1	6.2	0.08	14.10	2.32	0.16	0.93	17.55	0.91	58.50	0.17	418
450	to	750 mm	0.59	7.7	6.6	0.06	19.94	5.21	0.28	0.32	25.81	1.08	6.10	0.07	133
870	to	1050 mm	0.30	7.8	6.7	0.05	11.90	8.95	0.25	0.34	21.49	1.16	5.60	0.04	130
1050	to	1200 mm	0.35	8.1	7.0	0.06	12.51	17.42	0.36	0.54	30.84	1.17	4.20	0.04	208