

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N30 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 14/04/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Near Gladstone
Elevation: 34 metres
Rainfall: 786
Runoff: Slow
Drainage: Imperfectly drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: certain
Substrate Material: Quartz

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-32%
Morph. Type: Lower-slope
Elem. Type: Drainage depression
Slope: 5 %
Pattern Type: Low hills
Relief: No Data
Slope Category: Very gently sloped
Aspect: 200 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Placic Humosequic Semiaquic Podosol Thick Non-gravelly
 Loamy Sandy Deep

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

A11	0 - 0.15 m	Black (10YR2/1-Moist); Sandy loam; Weak grade of structure, <2 mm, Polyhedral; Single grain grade of structure, <2 mm, Granular; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; Field pH 5.4 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -
A12	0.15 - 0.3 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); 0-2%, 0-5mm, Distinct, 10YR4/1; Loamy sand; Weak grade of structure, <2 mm, Polyhedral; Single grain grade of structure, <2 mm, Granular; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Non-plastic; Non-sticky; Field pH 4.7 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.3 - 0.6 m	Dark greyish brown (10YR4/2-Moist); 0-2%, 0-5mm, Distinct, 10YR4/1; 0-2%, 5-15mm, Distinct, 7.5YR4/6; Sand; Single grain grade of structure, <2 mm, Granular; ; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Non-plastic; Non-sticky; Field pH 4.7 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B1hs	0.6 - 0.73 m	(7.5YR4/3-Moist); 2-10%, 15-30mm, Prominent, 10YR4/3; Loam; Massive grade of structure; Earthy fabric; Wet; Weak consistence; Non-plastic; Slightly sticky; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Ortstein, Moderately cemented, Continuous, Massive; Field pH 4.9 (pH meter); Few, fine (1-2mm) roots; Abrupt, Tongued change to -
B3	0.73 - m	Greyish brown (10YR5/2-Moist); 2-10%, 30-mm, Prominent, 7.5YR4/6; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Wet; Loose consistence; Non-plastic; Slightly sticky; Field pH 4.8 (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					
N30	0 to 75 mm	4.32	5.6	4.9	0.22	7.54	3.72	0.81	0.26	12.56	6.45	19.90	0.31	99
	200 to 275 mm	0.55	5.6	4.5	0.04	0.78	0.29	0.12	0.03	1.43	8.41	4.20	0.05	16
	600 to 730 mm	1.57	5.4	4.4	0.05	0.65	0.45	0.20	0.03	3.96	5.05	2.70	0.11	15
	800 to 1000 mm	0.12	5.5	4.5	0.04	0.13	0.11	0.08	0.03	1.18	6.79	2.20	0.02	16