

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C19 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 21/04/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Togari Swamp
Elevation: No Data
Rainfall: No Data
Runoff: Slow
Drainage: Moderately well drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Qhac

Conf. Sub. is Parent. Mat.: Almost certain
Substrate Material: Soil pit, Alluvium

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Lower-slope
Elem. Type: Dune
Slope: 5 %

Pattern Type: Sand plain
Relief: No Data
Slope Category: Gently inclined
Aspect: 23 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor or present (wind);

Soil Classification

Australian Soil Classification:
 Parapanic Humic/Humosequic Semiaquic Podsol Thick
 Non-gravelly Peaty Loamy Deep

ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments



Profile Morphology

A11	0 - 0.18 m	Black (10YR2/1-Moist); Sandy peat; Weak grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, <2 mm, Granular; Sandy (grains prominent) fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moist; Weak consistence; Non-plastic; Non-sticky; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Charcoal, coarse fragments; Soil matrix is Slightly calcareous; Field pH 5.4 (pH meter); Many, very fine (0-1mm) roots; Gradual, Smooth change to -
A12	0.18 - 0.32 m	Very dark grey (10YR3/1-Moist); Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Weak consistence; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, stratified, Charcoal, coarse fragments; Soil matrix is Slightly calcareous; Field pH 4.1 (pH meter); Common, very fine (0-1mm) roots; Gradual, Wavy change to -
A21	0.32 - 0.43 m	Very dark greyish brown (10YR3/2-Moist); Biological mixing, 10-20%, 0-5mm, Distinct, 10YR4/1; Loamy sand; Weak grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Moist; Weak consistence; Non-plastic; Non-sticky; Soil matrix is Slightly calcareous; Field pH 3.9 (pH meter); Few, very fine (0-1mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -
A22e	0.43 - 0.65 m	Dark grey (10YR4/1-Moist); Biological mixing, 10-20%, 0-5mm, Distinct, 10YR3/1; Sandy loam (Light); Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Non-plastic; Non-sticky; Soil matrix is Slightly calcareous; Field pH 3.4 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
Bh	0.65 - 1 m	Black (10YR2/1-Moist); Sandy loam (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; Non-plastic; Non-sticky; Organic pan, Uncemented, Continuous, Massive; Soil matrix is Slightly calcareous; Field pH 3.5 (pH meter); Few, very fine (0-1mm) roots; Sharp, Wavy change to -
Bhs	1 - 1.2 m	Black (5YR2.5/1-Moist); Massive grade of structure; Sandy (grains prominent) fabric; Moist; Rigid consistence; Non-plastic; Non-sticky; Ortstein, Strongly cemented, Continuous, Platy; Soil matrix is Slightly calcareous; Field pH 3.6 (pH meter); Few, very fine (0-1mm) roots;

Chemistry

	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					
C19 0 to 75 mm	6.09	5.2	4.2	0.11	9.21	1.57	0.37	0.20	11.50	3.22	0.00	0.50	91
200 to 275 mm	4.57	4.9	3.8	0.06	4.50	0.79	0.20	0.08	5.57	3.59	0.00	0.21	23
430 to 650 mm	3.32	4.3	3.4	0.09	0.87	0.54	0.17	0.06	5.98	2.84	23.10	0.07	38
650 to 950 mm	0.52	5.0	4.0	0.03	0.48	0.14	0.05	0.03	1.02	4.90	6.30	0.04	18