

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S71 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: G. Scholtz
 Date Desc.: 07/05/07
 Map Ref.: Sheet No. : SK55-8 1:250000
 Northing/Long.:
 Easting/Lat.:

Locality: Weld Valley
 Elevation: 205 metres
 Rainfall: 1000
 Runoff: Very rapid
 Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%
 Morph. Type: Mid-slope
 Elem. Type: Bench
 Slope: 6 %

Pattern Type: Mountains
 Relief: 300 metres
 Slope Category: Steep
 Aspect: 300 degrees

Surface Soil Condition (dry): Loose

Erosion: Partial, Minor (sheet) Partial, Present (mass)

Soil Classification

Australian Soil Classification:
 Dystrorphic Dermosolic Redoxic Hydrosol Medium
 Non-gravelly Loamy Clayey Deep

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

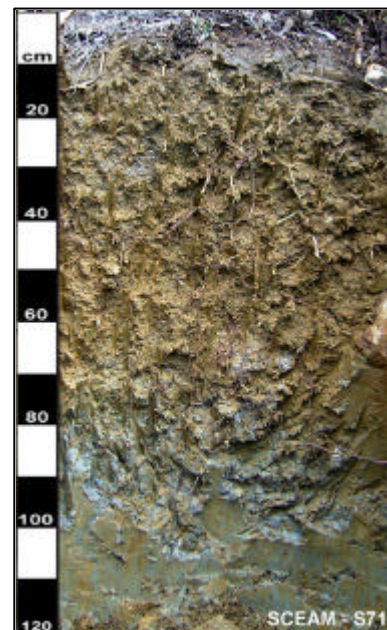
Site Disturbance: No effective disturbance. Natural

Vegetation: Tall Strata - Cycad, 20.01-35m, Closed or dense. *Species includes - Eucalyptus obliqua

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, rounded, Dolerite

Profile Morphology

O1	0 - 3 m	Organic Layer; Very dark brown (10YR2/2-Moist); Very dark grey (10YR3/1-Dry); Loam (Fibric); Many (>5 per 0.01m2) Coarse (>5mm) macropores, Moist; Loose consistence; Non-plastic; Non-sticky; 2-10%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; Common, very fine (0-1mm) roots; Clear, Wavy change to -
Ah	3 - 10 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); Loam; Weak grade of structure, 2-5 mm, Granular; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Loose consistence; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; Abundant, very fine (0-1mm) roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots; Abundant, coarse (>5mm) roots; Gradual,
B1g	60 - 90 m	Olive (5Y4/3-Moist); Olive (5Y5/3-Dry); Mottles, 20-50%, 5-15mm, Distinct, 10YR5/8; Mottles, 20-50%, 5-15mm, Distinct, 5B5/1; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Medium (2-5mm) macropores, Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; 0-2%, stony, 200-600mm, rounded, dispersed, Dolerite, coarse fragments; Abundant, very fine (0-1mm) roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots; Abundant, coarse (>5mm) roots; Gradual, Wavy change to -
B2g	90 - 110 m	Greenish grey (5G5/1-Moist); Greenish grey (5G6/1-Dry); Mottles, 20-50%, 5-15mm, Distinct, 7.5YR5/8; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Medium (2-5mm) macropores, Moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; Many (20 - 50 %), Ferruginous, Soft segregations, Medium (2 -6 mm) segregations; Abundant, very fine (0-1mm) roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots; Abundant, coarse (>5mm) 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					
0	to	75 mm	5.65	4.8	4.0	0.10	3.92	3.40	0.46	0.60	10.71	4.30	16.00	0.25	215
100	to	175 mm	4.64	4.9	4.0	0.06	2.11	2.61	0.35	0.37	7.97	4.39	7.30	0.15	135
200	to	600 mm	1.97	5.1	4.2	0.06	1.25	2.15	0.36	0.31	5.92	6.08	4.40	0.10	95
600	to	900 mm	0.95	5.2	4.2	0.06	1.31	2.79	0.53	0.25	6.57	8.07	3.50	0.07	82
900	to	1200 mm	0.56	5.2	4.1	0.07	2.57	8.37	0.68	0.21	13.69	4.97	2.30	0.05	68