Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania Project Code: SCEAM Site ID: S73 Observation ID: 1

Agency Name: TAS Department of Primary Industries and Water

Site Information

 Desc. By:
 G. Scholtz
 Locality:
 Warra

 Date Desc.:
 09/05/07
 Elevation:
 200 metres

 Map Ref.:
 Sheet No.: 4622
 1:25000
 Rainfall:
 1500

 Northing/Long.:
 Runoff:
 Very slow

Easting/Lat.: Drainage: Moderately well drained

Geology

 ExposureType:
 Soil pit
 Conf. Sub. is Parent. Mat.:
 certain

 Geol. Ref.:
 No Data
 Substrate Material:
 Dolerite

Land Form

Rel/Slope Class: Rolling mountains >300m Pattern Type: Mountains

10-32%

Morph. Type:Mid-slopeRelief:300 metresElem. Type:BenchSlope Category:Moderately inclinedSlope:2 %Aspect:150 degrees

<u>Surface Soil Condition (dry)</u>: Loose <u>Erosion</u>: Stable, Minor (sheet) Partial, No mass

movement (mass)

Soil Classification

Australian Soil Classification:

Haplic Dystrophic Red Dermosol Medium Moderately

gravelly Sandy Sandy Very deep

ASC Confidence: Reasonable confidence

<u>Site Disturbance</u>: No effective disturbance. Natural

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

Surface Coarse Fragments: 90-100%, cobbly, 60-200mm, rounded, Dolerite; 90-100%, large Boulders, >2m, rounded, Dolerite

Profile Morphology

Ah 0 - 10 m (/-Moist); (/-Dry); Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine

(1-2mm) macropores, Dry; Loose consistence; Non-plastic; Non-sticky; 20-50%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 20-50%, stony, 200-600mm, rounded, dispersed, Dolerite, coarse fragments; 20-50%, bouldery, 600mm-2m, subrounded,

dispersed, Dolerite, coarse fragments;

B1 10 - 40 m Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/8-Dry); Clay loam; Strong grade of

structure, 10-20 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Rough-ped fabric; Medium, (5 - 10) mm crack; Coarse, (10 - 20) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 20-50%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 20-50%, stony, 200-600mm, rounded, dispersed, Dolerite, coarse fragments; 20-50%, bouldery, 600mm-2m, subrounded, dispersed, Dolerite, coarse fragments; Abundant, very fine (0-1mm)

roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots, Wavy change to -

Red (10R4/8-Moist); Red (2.5YR4/8-Dry); Mottles, 10-20%, 5-15mm, Distinct, 7.5YR5/8; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Earthy fabric; Medium, (5 - 10) mm crack; Coarse, (10 - 20) mm crack; Very coarse, (20 - 50) mm crack; Many (>5 per 0.01m2) Fine (1-2mm) macropores, Many (>5 per 0.01m2) Coarse (>5mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Moderately sticky; 20-50%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 20-50%, bouldery, 600mm-2m, subrounded, dispersed, Dolerite, coarse fragments; 20-50% of ped faces or walls

coated, distinct; Abundant, very fine (0-1mm) roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots; Abundant, coarse (>5mm) roots; Gradual, Wavy change to -

B22t 60 - 120 m Red (10R4/8-Moist); Red (2.5YR4/8-Dry); Mottles, 20-50%, 30-mm, Distinct, 7.5YR5/8;

Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Angular blocky; Smooth-ped fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; 50-90%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, stony, 200-600mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%,

bouldery, 600mm-2m, subrounded, dispersed, Dolerite, coarse fragments; Common cutans, 10-50% of ped faces

Chemistry Data

R21t

40 - 60 m

			Organic	•	pH	EC	Exchangeable Bases (meq/100g)				ECEC	ESP			Colwell_K
			C%	(H20)	(CaCl2)	(dS/m)	Ca	Mg	Na	K	(meq/100g)	%	(mg/kg)	%	(mg/kg)
73	to	75 mm	5.46	5.2	4.5	0.17	12.65	4.54	0.45	1.07	19.17	2.35	4.50	0.51	419
200	to	275 mm	3.89	5.5	4.5	0.08	4.49	2.66	0.38	0.64	8.58	4.43	3.60	0.17	258
400	to	600 mm	1.45	6.1	5.1	0.04	1.50	2.16	0.26	0.63	4.76	5.46	7.10	0.09	228
600	to	900 mm	0.70	6.0	5.1	0.05	1.01	1.90	0.41	0.27	4.04	10.15	3.20	0.06	101
900	to	1200 mm	0.52	6.1	4.9	0.04	0.49	1.24	0.72	0.10	3.37	21.36	3.90	0.05	29

