Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:C44Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Date Desc.:22Map Ref.:GNorthing/Long.:54	. Hawkins 2/06/06 PS S.A. Off 419140 AMG zone: 55 49460 Datum: GDA94	Locality: Elevation: Rainfall: Runoff: Drainage:	Plantation Forestry off Stoodley Rd 161 metres 1098 Slow Moderately well drained					
	oil pit Io Data		Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data					
Morph. Type: L Elem. Type: H	Indulating rises 9-30m 3-10% ower-slope lillslope %	Pattern Type: Relief: Slope Category: Aspect:						
Surface Soil Cond	dition Firm							
Erosion Soil Classificatior	n							
Australian Soil Clas		Маррі	ng Unit:	N/A				
Acidic Dystrophic Bro	own Ferrosol Medium Non-gravel		pal Profile Form:	Db3.11				
loamy Clayey Very de ASC Confidence:	eep	Great	Soil Group:	N/A				
	ical data are available.	erout	een ereup:					
Site Disturbance								
<u>Vegetation</u> Surface Coarse F	ragments No surface coars	se fragments						
Profile Morpholog		se nagnonie						
O1 0 - 0.02 m	Organic Layer; Black (5YR2.5/1-Moist); , 0-0% ; Moderately moist; Loose consistence;							
Sharp, Smooth	change to -							
A1 0.02 - 0.2 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 20-50							
mm, Subangular	blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric;							
Moderately moist; Firm	1							
roots;	consistence; Moderately plastic; Normal plasticity; Slightly sticky; Many, very fine (0-1mm)							
	Common, fine (1-2mm) roots; Abrupt, Wavy change to -							
B1 0.2 - 0.64 m Moderate grade of	Reddish brown (5YR4/4-Moist); Mottles, 5YR58, 0-2% , 5-15mm, Distinct; Light clay;							
Subangular blocky;	structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm,							
	Earthy fabric; Moderately moist; Firm consistence; Moderately plastic; Subplastic; Slightly							
sticky;	Common cutans, 10-50% of ped faces or walls coated, faint; Few, fine (1-2mm) roots;							
Few, fine (1-2mm)	roots; Gradual, Wavy change to -							
B2 0.64 - 1.02	m Strong brown (7.5YR4/6-Mo	Strong brown (7.5YR4/6-Moist); , 0-0% ; Light clay; Strong grade of structure, 20-50 mm,						
Subangular		blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric;						
Moderately moist; Firm	consistence; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans,							
10-50% of ped	faces or walls coated, faint;	faces or walls coated, faint;						
Morphological No O1 BD	otes no macropores in the pit fac	e but large >15mm d	iameter worms seer	n when doing AS and				
A1 C44A	sampling. Significant fungal growth inA	A1, white dispersed b	ut particularly focus	ed around roots.				
	sampled 0-75mm							

sampled 0-75mmB1More clay skins in the B21 than B22. Charcoal throughout solum, dispersed, fine gravel

size,

weak. C44B sampled 200-275mm. C44C sampled 350-600mm Charcoal throughout solum, some stratification, medium gravel size, weak. C44D sampled

B2 350-

950mm

Observation Notes

vegetation was a pine plantation. Substrate was not reached

Site Notes

Mode of Geomorphic Activity: Eroded or aggraded, Agent: Sheet Wash. Inundation frequency: None.

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Laboratory Test Results:

Depth	рН	1:5 EC	E) Ca	changeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	••	9			(+)/kg			%
0 - 0.075	4.7C 5.5A	0.063A	6.02A	2.14	0.47	0.14	0.01D 0.26G 0.64A		9.41B	
0.2 - 0.275	4.4C 5.3A	0.041A	2.78A	1.16	0.32	0.12	0.16D 1.01G 1.6A		5.98B	
0.35 - 0.6	4.2C 4.9A	0.029A	0.61A	0.34	0.23	0.1	0.19D 2.31G 2.76A		4.04B	
0.65 - 0.95	4.2C 4.9A	0.028A	1.03A	0.47	0.18	0.11	0.24D 2.8G 2.95A		4.74B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle Size Analysis CS FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%
0 - 0.075		3.73B	8H 3.1I		0.29D				
0.2 - 0.275		2.2B	5H 1.7I		0.2D				
0.35 - 0.6		0.94B	2H 1I		0.11D				
0.65 - 0.95		0.45B	3H 1I		0.06D				

Laboratory Analyses Completed for this profile

12_NR_FE Total element - Fe(%) - Not recorded 12A1_CU DTPA - extractable copper, zinc, manganese and iron 12A1_FE DTPA - extractable copper, zinc, manganese and iron 12A1_MN DTPA - extractable copper, zinc, manganese and iron 12A1_ZN DTPA - extractable copper, zinc, manganese and iron 12A1_ZN DTPA - extractable copper, zinc, manganese and iron 12A1_ZN DTPA - extractable copper, zinc, manganese and iron 12C1 Calcium chloride extractable boron - manual colour 15_NR_AL Aluminium Cation - meq per 100g of soil - Not recorded 15_NR_H Hydrogen Cation - meq per 100g of soil - Not recorded 15A1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatra	nent
for soluble salts	
15A1_K Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatr for soluble	nent
salts	
15A1_MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatr for soluble	nent
salts	
15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatr	nent

for soluble

15G_C_AL2	salts
By AAS	Exchangeable aluminium - meq per 100g of soil - Aluminium By KCI extraction and detremination
15G1	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
15N1	Exchangeable sodium percentage (ESP)
18A1	Bicarbonate-extractable potassium
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension

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4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
7C1a	Ammonium-N, in presence or absence of nitrite
7C1b	(Nitrate+nitrite)-N, in presence of nitrite
9B2_COL	Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no
longer	
-	recommended

9C2

recommended Olsen-extractable phosphorus - automated colour