Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:N35Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Site Information	<u>l</u>								
Desc. By:	D.B. Kidd	Locality:	Evercreech 271 metres 909 Slow						
Date Desc.: Map Ref.:	14/09/05 GPS S.A. Off	Elevation: Rainfall:							
	5409085 AMG zone: 55	Runoff:							
Easting/Lat.:	576528 Datum: GDA94	Drainage:	Well drained						
<u>Geology</u>									
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia							
<u>Landform</u> Rel/Slope Class:	Gently undulating plains <	9m 1-3%	Pattern Type:	Flood plain					
Morph. Type: Elem. Type: Slope:	Flat Valley flat 2 %	Relief: Slope Category: Aspect:	No Data Very gently slope 175 degrees	ery gently sloped					
Surface Soil Co	ndition Soft								
Erosion									
Soil Classificati	<u>on</u>								
	ic Brown Dermosol Thick N		ng Unit: pal Profile Form:	N/A N/A					
loamy Clayey Deep ASC Confidence:		Great	Soil Group:	N/A					
	incomplete but reasonable		•						
Site Disturbance	<u>e</u>								
Vegetation	-								
Surface Coarse		bbly, 60-200mm, ,							
Profile Morphol			(Olay Isaa 0 (1997)	a second a second second					
A11 0 - 0.15 m 10-20 mm,	very dark greyish b	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clay loam; Strong grade of structure,							
Medium, (5 - 10) mm		Polyhedral; Strong grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric;							
consistence; Slightly	crack; Many (>5 pe	crack; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak							
		plastic; Normal plasticity; Slightly sticky; Common, very fine (0-1mm) roots; Gradual,							
Smooth change to -									
	,								
A12 0.15 - 0.4 20-50 mm,	, , , ,	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loam; Moderate grade of structure,							
ped fabric;		Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-							
Moderately moist;	Medium, (5 - 10) mi	Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores,							
fine (0-1mm)		Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common, very							
	roots; Gradual, Smo								
B1 0.45 - 0.6 5-10 mm,	2	vn (10YR3/4-Moist); , 0-0% ;	0 1	č					
(0 - 5) mm	Angular blocky; Mo	Angular blocky; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine,							
medium	crack; Moist; Weak	crack; Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; 0-2%,							
of ped faces or	gravelly, 6-20mm, r	gravelly, 6-20mm, rounded, dispersed, Sandstone, coarse fragments; Few cutans, <10%							
Few, very fine (0-	walls coated, faint;	walls coated, faint; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations;							
,, (0	1mm) roots; Gradua	al, Smooth change to -							
B2 0.68 - 0.9 Moderate grade	m Light olive brown (2	.5Y5/4-Moist); Mottles, 0-2%	, 5-15mm, Faint; Fi	ine sandy light clay;					
Subangular blocky;	of structure, 10-20 r	mm, Subangular blocky; Mod	erate grade of struc	cture, 5-10 mm,					
Cabangular Diocky,	Rough-ped fabric; N	Rough-ped fabric; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded,							

dispersed, segregations; -	Sandstone, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual, Smooth change to
BC 0.9 - 1.1 m	Greyish brown (2.5Y5/3-Moist); Mottles, 10YR46, 2-10%, 5-15mm, Distinct; Light clay;
Massive grade	of structure; Rough-ped fabric; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm,
rounded,	dispersed, Sandstone, coarse fragments; 10-20%, fine gravelly, 2-6mm, angular,
dispersed, Quartz,	coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations;
Few (2 - 10	%), Manganiferous, Medium (2 -6 mm), Nodules;
BC 0.9 - 1.1 m	Greyish brown (2.5Y5/3-Moist); Mottles, 10YR46, 2-10%, 5-15mm, Distinct; Light clay;
Massive grade	of structure; Rough-ped fabric; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm,
rounded,	dispersed, Sandstone, coarse fragments; 10-20%, fine gravelly, 2-6mm, angular,
dispersed, Quartz,	coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations;
Few (2 - 10	%), Manganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes	
BC	Gritty texture
BC	Gritty texture
B2	Primary Mottle colour Brown. N35E 70-90cm
B1	N35D 45-65 cm
A12	N35C 30-45cm

Observation Notes Plantation Forestry

Site Notes

Inundation: One in 1-10 years, for 1-20 days, to a depth of 50-100mm. Geomorphic Activity: Aggraded. Geomorphic Agent: Sheet wash.

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania Project Code: SCEAM Site ID: N35 Observation 1 Agency Name: TAS Department of Primary Industries and Fisheries

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Wig	ĸ	Cmol				%
0 - 0.075	4.9C 5.6A	0.064A	8.5A	1.27	0.34	0.16	0.31375D 1.16G 1.08275A		11.35275B	
0.2 - 0.275	5.2C 5.9A	0.112A	15.19A	1.87	0.56	0.27	0.2214D 0.09G 0.4375A		18.3275B	
0.3 - 0.45	4.3C 4.8A	0.082A	2.42A	0.4	0.29	0.16	0.4373A 0.513875D 3.4G 3.861375A		7.131375B	
0.45 - 0.65	4.4C 5A	0.047A	2.2A	1.31	0.07	0.1	0.216375D 1.16G 1.674625A		5.354625B	
0.7 - 0.9	5.4C 6A	0.046A	1.67A	2.75	0.13	0.27	0.109875D 0.15G 0.390375A		5.210375B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV I	Particle CS	Size A FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.075		4.61B	41H 13.6I		0.41D						
0.2 - 0.275		5.74B	77H 25.7I		0.5D						
0.3 - 0.45		4.91B	20H 7.4I		0.33D						
0.45 - 0.65		1.02B	11H 4.7l		0.07D						
0.7 - 0.9		0.52B	9H 4.2I		0.04D						

Laboratory Analyses Completed for this profile

10B_NR	Extractable sulfur (mg/kg) - Not recorded
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
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 pretreatment
for soluble	
	salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts

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15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
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
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	Olsen-extractable phosphorus - automated colour