#### SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaSCEAMSite ID:C1Observation ID:1 Project Name: Project Code: Agency Name: TAS Department of Primary Industries and Fisheries

## Site Information

Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: <u>Geology</u> ExposureType: Geol. Ref.: <u>Landform</u> Rel/Slope Class:	R. Moreton 27/09/05 GPS S.A. Off	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Materia % Pattern Type:							
Morph. Type: Elem. Type: Slope: <u>Surface Soil Co</u>	Upper-slope Hillslope 3 % pnditionFirm	Relief: Slope Category: Aspect:	No Data tegory: Very gently sloped 72 degrees						
Erosion Soil Classificat	ion								
Australian Soil C			ing Unit: pal Profile Form:	N/A N/A					
ASC Confidence	-	Great	Soil Group:	N/A					
Site Disturbance	lytical data are available. : <b>e</b>								
Vegetation Surface Coarse	Fragments 0-2%, cobbly, 6	0-200mm							
Profile Morpho		o _oom,,,							
Ap 0 - 0.3 m Polyhedral;	Reddish brown (5YR5/3-M	oist); , 0-0% ; Clay loa	Clay loam; Strong grade of structure, 5-10 mm,						
Fine (1-2mm)	Strong grade of structure,	Strong grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2)							
(0 - 2 %),	macropores, Moderately moist; Weak consistence; Slightly plastic; Very stick								
Ferruginous, Medium (2 -6 mm), Nodules; Common, very fine (0-1mm) roots; Abr Smooth change to									
<u> </u>	-								
B1t 0.3 - 0.45 Distinct; Clay loam;	Dark reddish brown (5YR3/4-Moist); Substrate influence, 2.5YR36, 0-2% , 5-15mm,								
2-5 mm,	Moderate grade of structur	Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure,							
Moderately	Polyhedral; Rough-ped fab	Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores,							
subangular,	moist; Weak consistence;	moist; Weak consistence; Slightly plastic; Very sticky; 0-2%, coarse gravelly, 20-60mm,							
0 /	dispersed, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm),								
Nodules; Few, very	fine (0-1mm) roots; Gradual, Smooth change to -								
B21t 0.45 - 0.8	Dark red (2.5YR3/6-Moist); Mottles, 5YR53, 0-2% , 0-5mm, Faint; Substrate influence,								
2.5YR36, 0-2% ,	0-5mm, Distinct; Clay loam	0-5mm, Distinct; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky;							
Moderate grade		of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak							
consistence; Slightly		plastic; Very sticky; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;							
Gradual, Smooth	change to -								
B22t 0.8 - 1.1	m Dark red (2.5YR3/6-Moist)	; , 0-0% ; Clay loam; I	Noderate grade of s	structure, 10-20 mm,					
Subangular	blocky; Moderate grade of	structure, 2-5 mm, Po	olyhedral; Rough-pe	d fabric; Moderately					
moist; Weak	consistence; Slightly plasti	c; Very sticky;							

## **Morphological Notes**

Ap B1t B21t B22t

Penetration resistance: Soft Penetration resistance: Firm. B1T Horizon sampled from .30 to .40m, Label C1C. Penetration resistance: Stiff. B21T Horizon sampled from .50 to .80m, Label C1D. Penetration resistance: Very Stiff. B22T Horizon sampled from .85 to 1.10m, Label C1E.

#### **Observation Notes**

Poppy regrowth. Ryegrass pasture sprayed off. Substrate not reached during Soil Pit observation but positively Tertiary Basalt. Soil Class is Burnie Clay Loam

## Site Notes

Geomorphic activity was eroded with the geomorphic agent Sheet wash. The inundation frequency is no inundation.

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# Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol				%
0 - 0.075	5C 5.8A	0.101A	10.21A	2.49	1.13	0.31	0.1D 0G 0.25A		14.39B	
0.2 - 0.275	5.2C 6.1A	0.045A	7.92A	1.62	0.54	0.17	0.1D 0.09G 0.14A		10.39B	
0.3 - 0.4	5.5C 5.9A	0.038A	6.31A	0.71	0.13	0.21	0.02635D 0G 0.03635A		7.39635B	
0.5 - 0.8	5.7C 5.9A	0.064A	5.9A	0.54	0.09	0.26	0.01135D 0G 0.02135A		6.81135B	
0.85 - 1.1	5.7C 5.9A	0.06A	5.17A	1.16	0.1	0.23	0.01D 0G 0.02A		6.68B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle CS	Size A FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.075		4.31B	213H 73I		0.36D						
0.2 - 0.275		2.75B	56H 12I		0.22D						
0.3 - 0.4		1.67B	5H 1.9I		0.11D						
0.5 - 0.8		0.77B	4H 1.2l		0.08D						
0.85 - 1.1		0.54B	4H 1.5l		0.07D						

# Laboratory Analyses Completed for this profile

10B_NR 12_NR_FE 12A1_CU 12A1_FE 12A1_MN 12A1_ZN 12C1 15_NR_AL 15_NR_H 15A1_CA for soluble	Extractable sulfur (mg/kg) - Not recorded Total element - Fe(%) - Not recorded DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron Calcium chloride extractable boron - manual colour Aluminium Cation - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15G_C_AL2 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

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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