Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:N45Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Site Information									
Desc. By: Field Rd	H. Hawkins	Locality:		Winton, Near Carr	npbell Town on Valley				
Date Desc.:	04/07/06	Elevation:		161 metres					
Map Ref.:	GPS S.A. Off	Rainfall:		545					
Northing/Long.:	5364262 AMG zone: 55	Runoff:		Moderately rapid	d				
Easting/Lat.:	529612 Datum: GDA94	Drainage:		Imperfectly draine	a				
<u>Geology</u> ExposureType:	Soil pit	Conf. Sub.	is Pare	nt. Mat.: No Data	a				
Geol. Ref.:	Qs	Substrate I							
Landform									
Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Ty	pe:	Rises					
Morph. Type:	Upper-slope	Relief:		No Data Gently inclined					
Elem. Type: Slope:	Hillslope 9 %	Slope Cate Aspect:	gory:						
Surface Soil Co		Aspect.		214 degrees					
Erosion									
Soil Classificati	ion								
			Monnie	a Unit.	N/A				
Australian Soil Cl	ss Undetermined Tenosol Medium	Non-gravelly		ng Unit: bal Profile Form:	N/A N/A				
Loamy Clayey Dee		inten graveny							
ASC Confidence			Great S	Soil Group:	N/A				
•	llytical data are available.								
Australian Soil Cl				ng Unit:	N/A				
gravelly Loamy Cla	Class Undetermined Tenosol Me	dium Non-	Princip	al Profile Form:	N/A				
ASC Confidence			Great	Soil Group:	N/A				
	Ilytical data are available.		Great	Son Group.					
Site Disturbanc	<u>e</u>								
Vegetation									
Surface Coarse	• Fragments No surface coa	rse fragments							
Profile Morphol	logy								
A1 0 - 0.21 r	m Dark reddish brown (5YR3	3/3-Moist); , 0-0	0% ; San	dy loam; Moderate	grade of structure,				
20-50 mm,	Subangular blocky: Moder	Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy							
fabric; Fine, (0 -		ale glade el el			Jana: 210011); _anii)				
Non stiels "Mony	5) mm crack; Moderately r	5) mm crack; Moderately moist; Very weak consistence; Non-plastic; Normal plasticity;							
Non-sticky; Many,	very fine (0-1mm) roots; A	very fine (0-1mm) roots; Abrupt, Wavy change to -							
	, .								
B21t 0.21 - 0.4 2.5YR34, 2-	12 III Dark reddisii brown (5 r R	5/2-INIOISI); INIOI	ues, orr	(2.51, 2-10% , 5-15	omm, Faint, Mottles,				
,	10% , 5-15mm, Faint; Clay	yey sand; Mas	sive grad	le of structure; San	dy (grains prominent)				
fabric; crack;	Dry; Weak consistence; N	Dry; Weak consistence; Non-plastic; Normal plasticity; Slightly sticky; Few, very fine (0-							
1mm) roots;	-								
	Clear, Wavy change to -								
B22t 0.42 - 0.6	n Reddish brown (5YR4/3-Moist); Mottles, 5YR46, 10-20% , 15-30mm, Distinct; Mottles,								
5YR32, 0-2% , 5-	15mm, Distinct; Sandy ligh	15mm, Distinct; Sandy light clay; Massive grade of structure; Sandy (grains prominent)							
fabric;	Moderately moist: Firm co	Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Slightly sticky;							
Common (10 -	· · ·	20 %), Manganiferous, Fine (0 - 2 mm), Veins; Clear, Wavy change to -							
BC 0.6 - 1 m		. ,.							
(grains	Ύ,	Reddish brown (5YR4/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Sandy							
	prominent) fabric; Dry; Ve	ry firm consiste	ence;						
Morphological	<u>Notes</u>								

Morphological Notes A1 Charcoal in B21 - Piece 5 x 2cm in middle of pit face, generaly > 1cm, distributed very few.

Observation Notes Vegetation was pasture.

<u>Site Notes</u> Mode of Geomorphic Activity: Eroded, Geomorphic Agent: Sheet Wash.

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Laboratory Test Results:

Depth	рН	1:5 EC	E) Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	мg	n	Cmol				%
0 - 0.075	6C 6.9A	0.066A	5.92A	0.89	0.94	0.13	0.02D 0G 0.03A		7.91B	
0.2 - 0.275	6C 6.8A	0.044A	4.35A	0.66	0.46	0.1	0.01D 0G 0.02A		5.59B	
0.5 - 0.6	6C 7A	0.032A	5.6A	5.69	0.35	0.23	0.01D 0G 0.02A		11.89B	
0.65 - 0.9	6.1C 7.4A	0.025A	5.21A	6.15	0.32	0.24	0.01D 0G 0.02A		11.94B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Anal CS FS S	lysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0 - 0.075		1.36B	36H 15.5I		0.16D					
0.2 - 0.275		0.85B	18H 8.7I		0.1D					
0.5 - 0.6		0.21B	3H 1.5I		0.03D					
0.65 - 0.9		0.12B	3H 2.7I		0.02D					

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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
15N1	Exchangeable sodium percentage (ESP)

- Exchangeable sodium percentage (ESP) Bicarbonate-extractable potassium EC of 1:5 soil/water extract pH of 1:5 soil/water suspension
- 15J_F 15N1 18A1 3A1 4A1

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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