# Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:C21Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

### Site Information

Site Information Desc. By: D town, Britton Swamp.	D.B. Kidd	Locality:	Property owner, J	leff Argent. Nearest					
Map Ref.:GNorthing/Long.:5Easting/Lat.:3	1/04/05 GPS S.A. Off 463705 AMG zone: 55 28677 Datum: GDA94	Elevation: Rainfall: Runoff: Drainage:	50 metres 1318 Very slow Poorly drained						
	Soil pit No Data	Conf. Sub. is Pare Substrate Materia							
Landform Rel/Slope Class: 0	Gently undulating plains <9m 1-3	%	Pattern Type:	Alluvial plain					
Elem. Type: E	Flat Backplain 3 %	Relief: Slope Category: Aspect:	No Data Level No Data						
Surface Soil Con Erosion	<u>dition</u> Firm								
Soil Classification		Маррі	ng Unit:	N/A					
	idic Oxyaquic Hydrosol Loamy Cl	••	pal Profile Form:	N/A					
ASC Confidence: Analytical data are in	ncomplete but reasonable confide		Soil Group:	N/A					
Site Disturbance									
<u>Vegetation</u> Surface Coarse F	ragments No surface coars	se fragments							
Profile Morpholog A11 0 - 0.05 m				derete grade of					
A11 0 - 0.05 m structure, 5-10 mm,	Very dark greyish brown (1)	,		Ū					
(<1 per 100mm2)	-	Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Few							
Field pH 5.6 (pH		Very fine (0.075-1mm) macropores, Moist; Weak consistence; Non-plastic; Non-sticky; meter); Many, very fine (0-1mm) roots; Sharp, Wavy change to -							
A12 0.05 - 0.22				Omm Brominant:					
A12 0.05 - 0.22 Coarse sandy loam;		Very dark greyish brown (10YR3/2-Moist); , 10YR82, 20-50% , 15-30mm, Prominent;							
mm, Granular;	-	Moderate grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, 2-5							
macropores, Moist;	· · · · · · · · · · · · · · · · · · ·	Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm)							
(0-1mm) roots;		Firm consistence; Non-plastic; Non-sticky; Field pH 5.9 (pH meter); Common, very fine							
A2e 0.22 - 0.3 m	Sharp, Smooth change to -	viet): 0.0% · Loomy	aaraa aand: Maaai	vo grada of atructura					
A2e 0.22 - 0.3 m Sandy (grains		Greyish brown (2.5Y5/2-Moist); , 0-0% ; Loamy coarse sand; Massive grade of structure; prominent) fabric; Moderately moist; Weak consistence; Non-plastic; Non-sticky; Other							
pans,	, , ,								
roots; Sharp,		Uncemented, Continuous, Massive; Field pH 5.6 (pH meter); Few, very fine (0-1mm)							
D 0.3 - 0.33 m	Smooth change to - n , 0-0% ; Massive grade of s	tructure: Dry: Non-ol	astic: Non-sticky: SI	harn Smooth change					
to -		structure, Dry, Norr pr		halp, onooth change					
B21 0.33 - 0.53 structure, 20-50	m Very dark greyish brown (1)	0YR3/2-Moist); , 0-09	% ; Silty medium cla	y; Moderate grade of					
fabric; Few (<1 per	mm, Subangular blocky; M	loderate grade of stru	icture, <2 mm, Grar	nular; Rough-ped					
Slightly sticky; Field	100mm2) Very fine (0.075-	1mm) macropores, M	loist; Weak consiste	ence; Non-plastic;					
	pH 5.3 (pH meter); Few, ve	pH 5.3 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Irregular change to -							

B22 0.53 - 1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Silty medium clay; Weak grade of structure, 20-
50 mm, Angular	blocky; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm
crack; Few (<1	
plastic; Normal	per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly
	plasticity; Slightly sticky; Field pH 4.8 (pH meter);

## Morphological Notes

A11	ec, 0.1dSm.
A12	ec, 0.1dSm.
A2e	ec, 0.0dSm.
D	D horizon is charcoal layer.

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B21ec, 0.0dSm. Sampled from 35cm - 45cm, Label C21C.B22ec, 0.0dSm. Sampled from 60cm - 80cm, Label C21D.

## **Observation Notes**

### Site Notes

Irrigated pasture at time of description.

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### Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol				%
0 - 0.075	5.4C 6.1A	0.228A	23.21A	8.44	1.39	0.85	0D 0.09G 0A		33.89B	
0.2 - 0.275	4.3C 5.3A	0.102A	6A	5.11	0.53	0.42	0D 2.95G 0A		12.06B	
0.35 - 0.45	4.2C 5A	0.087A	1.24A	1.22	0.36	0.22	0.96D 6.38G 7.68A		10.72B	
0.6 - 0.8	4.2C 5A	0.069A	0.94A	0.87	0.31	0.16	1.05575D 6.48G 8.0095A		10.2895B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	e Size Analysis FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%
0 - 0.075		6.04B	143H 0I		1.19D				
0.2 - 0.275		6.18B	45H 0I		0.94D				
0.35 - 0.45		8.68B	10H 4.2I		0.43D				
0.6 - 0.8		5.72B	8H 3I		0.26D				

#### 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	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
for soluble	
4544.14	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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment

#### 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