Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:C18Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Desc. By:	R. Moreton	Locality:	Property owned by	y Wayne Tennant,					
Near Tugoui Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	19/04/05 GPS S.A. Off 5468261 AMG zone: 55 322820 Datum: GDA94	Elevation: Rainfall: Runoff: Drainage:	29 metres 1266 Very slow Imperfectly draine	d					
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit Qa	Conf. Sub. is Pare Substrate Material		a No Data					
Morph. Type: Elem. Type: Slope:	Level plain <9m <1% Flat Fan 1 %	Pattern Type: Relief: Slope Category: Aspect:	Alluvial plain No Data Level 300 degrees	No Data Level					
Surface Soil Co	ondition Firm								
Erosion Soil Classificati	ion								
Australian Soil Cl			ng Unit: oal Profile Form:	N/A N/A					
ASC Confidence Analytical data are	: e incomplete but reasonable confide		Soil Group:	N/A					
Australian Soil Cl Basic Black-Orthic Form:	assification: c Tenosol Thick Non-gravelly Loamy		ng Unit:	N/A Principal Profile					
ASC Confidence Analytical data are <u>Site Disturbanc</u> <u>Vegetation</u> Surface Coarse	e incomplete but reasonable confide <u>e</u>	ence.	Soil Group:	N/A					
Profile MorpholA10 - 0.2 mPolyhedral;	Black (10YR2/1-Moist); , 0-0		-						
fabric; Moderately	Moderate grade of structure	Moderate grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent)							
very fine (0-1mm)	moist; Weak consistence; N roots; Abrupt, Wavy change	moist; Weak consistence; Non-plastic; Non-sticky; Field pH 5.6 (pH meter); Common,							
2A1b 0.2 - 0.36			-5mm, Distinct; Loa	my fine sand; Weak					
grade of	structure, 2-5 mm, Subangu	ılar blocky; Single gra	in grade of structur	e; Sandy (grains					
prominent) fabric;	Dry; Very weak consistence	; Non-plastic; Non-sti	cky; 0-2%, fine gra	velly, 2-6mm,					
subrounded, dispers		Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm),							
Nodules; Field	pH 5.7 (pH meter); Few, ver	ry fine (0-1mm) roots;	Clear, Wavy chang	ge to -					
2A2b 0.36 - 0.7 Massive grade	, <u>,</u>	,		•					
Slightly sticky; 0-		of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Non-plastic;							
(pH meter);		2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5.8 Few, very fine (0-1mm) roots; Clear, Smooth change to -							
0D16 07 000			0	Distinct: Light store					
2B1b 0.7 - 0.82 Earthy fabric;	2 m Very dark grey (10YR3/1-Mo Moderately moist; Firm cons	,							
2%, fine gravelly,		sistence, ongritty plas	ao, norma piastici	y, Onghuy Subry, 0-					

Ferruginous, Coarse (6 -	2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %),					
meter); Sharp,	20 mm), Nodules; Organic pan, Uncemented, Continuous, Massive; Field pH 6 (pH					
,, 1,	Smooth change to -					
3B2b 0.82 - 1.25 m of structure;	Black (10YR2/1-Moist); Mottles, 10YR31, 2-10% , 5-15mm, Faint; Loam; Massive grade					
Slightly sticky;	Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic;					
Clightly Glory,	Field pH 6 (pH meter);					

Morphological Notes

A1	Penetration resitance: Soft. Salinity measure 0.1 dSm^-1
2A1b	Penetration resitance: Firm. Salinity measure 0.0 dSm^-1

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2A2b Penetration resitance: Soft. Salinity measure 0.0 dSm^-1 Penetration resitance: Firm. Salinity measure 0.0 dSm^-1 Penetration resitance: Soft. Salinity measure 0.1 dSm^-1. C18C sample 82-125cm 2B1b 3B2b

Observation Notes

Vegetation was Irrigated Pasture. Paddock is hump and hollow therefore suspected burried horizons. Mode of Geomorphic Activity: Aggraded. Agent: Wind. Inundation Frequency: None.

Site Notes

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Agency Name:	TAS Depart	ment of Primar	y Indus	tries and Fisheries

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		U		Cmol	(+)/kg			%
0 - 0.075	5.6C 6.3A	0.157A	10.68A	4.48	0.45	0.27	0.1477525 D 0G 0.15275A		16.03275B	
0.2 - 0.275	5.2C 6A	0.138A	9.77A	4.35	0.38	0.29	0.14465D 0.1G 0.17725A		14.96725B	
0.82 - 1.25	5.7C 6.3A	0.093A	10.8A	1.91	0.25	0.22	0.0541375 D 0G 0.063A		13.243B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle Siz	e Analysis S Silt
m	%	%	mg/kg	%	%	%	Mg/m3		0	6
0 - 0.075		5.08B	89H 0I		0.29D					
0.2 - 0.275		5.49B	60H 0I		0.37D					
0.82 - 1.25		1.58B	2H 1.9I		0.09D					

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

for soluble	salts
15G_C_AL2 By AAS	Exchangeable aluminium - meq per 100g of soil - Aluminium By KCI extraction and detremination
15G1 15J_H 15N1 18A1 3A1 4A1 4B2 6B2 7A5 7C1a	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) Exchangeable sodium percentage (ESP) Bicarbonate-extractable potassium EC of 1:5 soil/water extract pH of 1:5 soil/water suspension pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - high frequency induction furnace, thermal conductivity Ammonium-N, in presence or absence of nitrite

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 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