# Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:N15Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

### Site Information

Site information	_		Lessites		C	املم منام مرم	la alı. Onunanı Dill			
<b>Desc. By:</b> Gibson	D.B. k	NICO	Locality:		Scone, S	and pado	lock. Onwer: Bill			
Date Desc.:	19/10/		Elevation:		150 metre	es				
Map Ref.:		S.A. Off	Rainfall:		620 Slow					
Northing/Long.: Easting/Lat.:		332 AMG zone: 55 59 Datum: GDA94	Runoff: Drainage:		Slow Poorly dra	ained				
Geology	0.0.0		2.4		. conj an	annou				
ExposureType:	Soil p	it	Conf. Sub. i	s Parer	nt. Mat.:	No Data	ì			
Geol. Ref.:	No Da	ata	Substrate M	3						
Landform	•					_	_			
(alluvial)	Gentl	y undulating plains <9m 1-3%	6		Pattern 1	Terrace				
(unu riai)										
Morph. Type:		depression (vale)	Relief: No Data							
Elem. Type: Slope:	Terra 4 %	ce plain	Slope Categ Aspect:	jory:	Very gen 38 degre		1			
Surface Soil Co		<b>on</b> Firm	Азреен.		JU UCGIC	03				
Erosion		<u>, , , , , , , , , , , , , , , , , , , </u>								
Soil Classificati	ion									
Australian Soil Cl		cation:		Mappir	ng Unit:		N/A			
		atric Grey Sodosol Medium N			•	Form:	N/A			
Loamy Clayey Dee	•	·								
ASC Confidence:	-	data ara availabla		Great S	Soil Group	<b>):</b>	N/A			
Site Disturbanc	•	data are available.								
Vegetation	<u>×</u>									
Surface Coarse	Frag	ments No surface coars	e fragments							
Profile Morphol			•							
Ap 0 - 0.2 m		Very dark greyish brown (10	YR3/2-Moist)	; , 0-0%	; Fine sar	ndy loam;	Weak grade of			
structure, 5-10 mm,		Subangular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped								
fabric; Few (<1 per										
plaatia: Nan		100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Non-								
plastic; Non-		sticky; Many, very fine (0-1mm) roots; Abrupt, Wavy change to -								
A21 0.2 - 0.27 mm, Angular	'n	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Weak grade of structure, 5-10								
100mm2) Very		blocky; Weak grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Few (<1 per								
		fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic;								
Moderately sticky;		Silcrete, Weakly cemented, Discontinuous, Massive; Common, very fine (0-1mm) roots;								
Clear, Wavy		change to -								
A22 0.27 - 0.3	3 m	ů –								
Weak grade of		structure, 5-10 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Angular blocky;								
Smooth-ped		fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist;								
Weak consistence; Non-plastic; Moderately sticky; Silcrete, Weakly cemented, Discon										
Common, very fine		(0-1mm) roots; Sharp, Wavy change to -								
B21 0.33 - 0.5	i9 m	Dark grey (10YR4/1-Moist);	0	R46, 10	)-20% , 5-1	I5mm, Di	stinct; Medium heavy			
clay; Weak		grade of structure, 20-50 mm	n, Polyhedral;	Moder	ate grade	of structu	re, 10-20 mm,			
Polyhedral; Rough-		ped fabric; Moist; Firm consi	-		-					
cutans, >50% of peo	b	faces or walls coated, distin			• •					
					-					

mm), Soft

segregations; Few, very fine (0-1mm) roots; Gradual, Smooth change to -

B22t 0.59 - 0.9 m consistence:		Olive brown (2.5Y4/4-Moist); , 0-0% ; Heavy clay; Massive grade of structure; Moist; Firm
walls coated.	Slightly plastic; Superplastic; Slightly sticky; Common cutans, 10-50% of ped faces or	
waits coaleu,		distinct;

## **Morphological Notes**

Ар	Sample N15A 0-75mm
A21	Rusty root linings. Sample N15B 150-225mm
A22	Rusty root linings. Sample N25C 20-33mm
B21	Sample N25D 330-590mm
B22t	Samlpe N15E 600-9010mm

Observation Notes Vegetation: Pasture/Clover

# Site Notes

Geomorphic Action: Aggraded, Agent: Wind. Inundation: < 1 per 100years

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#### Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	ing	ĸ	Cmol				%
0 - 0.075	5.5C 6.3A	0.108A	4.74A	0.9	0.27	0.45	0.1D 0G 0.11A		6.47B	
0.15 - 0.225	4.6C 5.8A	0.06A	1.61A	0.32	0.2	0.28	0.08D 0.08G 0.28A		2.69B	
0.2 - 0.33	4.9C 6.2A	0.055A	1.3A	0.42	0.16	0.54	0D 0.33G 0.14A		2.56B	
0.33 - 0.59	6.7C 7.5A	0.136A	6.7A	14.89	0.43	4.26	0.01D 0G 0.03A		26.31B	
0.6 - 0.9	7.1C 8.4A	0.243A	6.56A	15.26	0.43	6.44	0D 0G 0.01A		28.7B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV I	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.075		2.49B	27H 35.7I		0.22D						
0.15 - 0.225		1.28B	48H 27.6I		0.11D						
0.2 - 0.33		0.62B	10H 4.5l		0.07D						
0.33 - 0.59		0.69B	2H 0.7I		0.12D						
0.6 - 0.9		0.44B	2H 0.9I		0.13D						

### 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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1 NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15G C AL2	Exchangeable aluminium - meg per 100g of soil - Aluminium By KCI extraction and detremination
By AAS	
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