

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** S24 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Fisheries

#### Site Information

<b>Desc. By:</b>	D.B. Kidd	<b>Locality:</b>	Curringa, Hamilton
<b>Date Desc.:</b>	15/09/05	<b>Elevation:</b>	139 metres
<b>Map Ref.:</b>	GPS S.A. Off	<b>Rainfall:</b>	548
<b>Northing/Long.:</b>	5287723 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	482388 Datum: GDA94	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Landform

<b>Rel/Slope Class:</b>	Rolling hills 90-300m 10-32%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Steep
<b>Slope:</b>	37 %	<b>Aspect:</b>	48 degrees

#### Surface Soil Condition Soft

#### Erosion Partial, Minor (sheet)

#### Soil Classification

<b>Australian Soil Classification:</b>	Basic Paralitric Leptic Rudosol Slightly gravelly Loamy Shallow	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	N/A

<b>ASC Confidence:</b>	Analytical data are incomplete but reasonable confidence.	<b>Great Soil Group:</b>	N/A
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#### Site Disturbance

#### Vegetation

#### Surface Coarse Fragments 2-10%, cobbly, 60-200mm, , Dolerite

#### Profile Morphology

<b>A1</b>	0 - 0.22 m	Dark reddish brown (5YR2.5/2-Moist); , 0-0% ; Loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Non-sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common, very fine (0-1mm) roots; Clear, Smooth change to -
<b>B2</b>	0.22 - 0.4 m	Yellow (10YR7/6-Moist); Substrate influence, 5YR34, 10-20% , 15-30mm, Distinct; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common (10 - 20 %), Calcareous, mm), Soft segregations; Other pans, Moderately cemented, Continuous, Vesicular; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
<b>C</b>	0.4 - 0.42 m	Yellow (10YR7/6-Moist); Substrate influence, 10-20% , 15-30mm, Distinct; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;

#### Morphological Notes

A1	S24C sampled 0-20cm
B2	S24D sampled 22-40cm

#### Observation Notes

Substrate weathered DR

#### Site Notes

Geomorphic Activity: Erosion, agent: sheet wash.

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.075	5.4C 6.3A	0.054A	17.81A	5.24	0.28	0.37	0.12D 0G 0.14A		23.84B	
0.1 - 0.2	5.8C 6.3A	0.045A	19.56A	6.23	0.14	0.31	0.028725D 0G 0.038725A		26.27872B	
0.22 - 0.4	6.1C 6.5A	0.038A	23.67A	10.27	0.09	0.64	0.0318D 0G 0.0418A		34.7118B	

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.075		3.06B	11H 4.9I		0.27D			
0.1 - 0.2		2.37B	7H 3.9I		0.22D			
0.22 - 0.4		0.99B	3H 2.4I		0.11D			

**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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_K	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15G_C_AL2	Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination
By AAS	
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
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



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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