#### Project Name: Project Code: SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaSCEAMSite ID:N44Observation ID:1 Agency Name: TAS Department of Primary Industries and Fisheries

#### Site Information

Easting/Lat.: Geology	H. Hawkins 05/06/06 GPS S.A. Off 5423621 AMG zone: 55 501227 Datum: GDA94	Locality: Elevation: Rainfall: Runoff: Drainage:	Elevation:       48 metres         Rainfall:       797         Runoff:       Moderately rapid         Drainage:       Imperfectly drained						
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia		a , 0.9 m deep,Dolerite					
Landform Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	Rolling low hills 30-90m 10-32% Mid-slope Hillslope 23 % ndition Firm	Pattern Type: Relief: Slope Category: Aspect:	e Category: Moderately inclined						
Erosion									
Soil Classificat Australian Soil Cl Haplic Mesotrophic Clay-loamy Clayey	assification: Brown Ferrosol Medium Moderat		ng Unit: pal Profile Form:	N/A Dy4.11					
ASC Confidence All necessary ana Site Disturbance	lytical data are available.	Great Soil Group: N/							
Vegetation Surface Coarse	Fragments No surface coa	rse fragments							
Profile Morpho									
A1 0 - 0.25 r Moderate grade	n (/-Moist); , 0-0% ; Clay loa	am; Strong grade of st	ructure, 10-20 mm,	Subangular blocky;					
moist; Weak	of structure, 2-5 mm, Suba	of structure, 2-5 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately							
	consistence; Slightly plasti	consistence; Slightly plastic; Normal plasticity; Slightly sticky; 20-50%, cobbly, 60-200mm,							
subrounded,	dispersed, Dolerite, coarse	dispersed, Dolerite, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded,							
dispersed,	Dolerite, coarse fragments	Dolerite, coarse fragments; Few, very fine (0-1mm) roots; Many, fine (1-2mm) roots;							
Abrupt, Irregular	change to -								
B2 0.25 - 0.5		Strong brown (7.5YR5/6-Moist); Mechanical, 7.5YR32, 2-10% , 15-30mm, Distinct;							
Medium clay; Weak		grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence;							
Very plastic;	Normal plasticity; Moderat	ely sticky; 20-50%, co	bbly, 60-200mm, su	ıbrounded, dispersed,					
Dolerite, coarse	fragments; 20-50%, cobbl	fragments; 20-50%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse							
fragments; Common	1	cutans, 10-50% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots; Few,							
fine (1-2mm) roots;		Clear, Irregular change to -							
BC 0.57 - 0.9	m Brown (7.5YR4/4-Moist); S	Brown (7.5YR4/4-Moist); Substrate influence, 10YR76, 20-50% , 5-15mm, Distinct; Light							
clay; Moderate	grade of structure, 20-50 n	grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moderately moist; Strong							
consistence;	Slightly plastic; Normal pla	Slightly plastic; Normal plasticity; Very sticky; 20-50%, cobbly, 60-200mm, subrounded,							
dispersed,	Dolerite, coarse fragments	s; 20-50%, medium ara	avelly, 6-20mm, sub	prounded, dispersed.					
Dolerite, coarse		fragments; 90-100%, medium gravelly, 6-20mm, angular, dispersed, Dolerite, coarse							
fragments;		San gratony, o zonini	angular, dioporodu						

 Morphological Notes

 B2
 Clay skins coated Ped Faces. N44C 32-50

BC N44D 60-90cm

## **Observation Notes**

Substrate at a depth greater than 90cm.

## Site Notes

Mode of Geomorphic Activity: Erroded. Agent: Sheet Wash. No inundation

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# Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou	mg	i.	Cmol				%
0 - 0.075	5.9C 6.5A	0.081A	21.76A	8.9	1.45	0.22	0.03D 0G 0.06A		32.39B	
0.125 - 0.2	5.6C 6.4A	0.062A	15.82A	7.19	0.89	0.22	0.03D 0G 0.05A		24.17B	
0.32 - 0.5	5.7C 6.8A	0.078A	14.44A	21.47	0.34	0.73	0.03D 0G 0.05A		37.03B	
0.6 - 0.9	6.1C 7.3A	0.084A	14.45A	24.88	0.32	1.6	0.02D 0G 0.03A		41.28B	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		Particle Size A	
		C Clay	Р	Р	N	К	Density	GV	CS FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.075		3.66B	87H 29.8I		0.43D					
0.125 - 0.2		3.06B	29H 11.5I		0.34D					
0.32 - 0.5		0.82B	3H 0.8I		0.11D					
0.6 - 0.9		0.49B	3H 1I		0.08D					

## Laboratory Analyses Completed for this profile

10B_NR 12_NR_FE 12A1 CU	Extractable sulfur (mg/kg) - Not recorded Total element - Fe(%) - Not recorded 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 - meg per 100g of soil - Not recorded
15_NR_H 15A1 CA	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	Exchangeable bases (Ca2+, Mg2+, Ma+, N+) - The animonium chloride at pri 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