Project Name: DER
Project Code: DER **Site ID:** H247 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: 2.0KM S of Cambridge cutting on rd to Mt.Rumney:1.8KM from t`off on Tasman H`way:2.5CH SE of road side quarry:
Date Desc.: 23/05/62
Elevation: 290 metres
Map Ref.:
Rainfall: 550
Northing/Long.: 147.434722222222
Runoff: Very rapid
Easting/Lat.: -42.8625
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Soil pit, 0.71 m deep,Dolerite

Land Form

Rel/Slope Class: No Data
Pattern Type: No Data
Morph. Type: Ridge
Relief: No Data
Elem. Type: Cutface
Slope Category: Steep
Slope: 34.4 %
Aspect: 225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Grey Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.22
Great Soil Group: Non-calcic brown soil

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , Sparse. *Species includes - Danthonia species, Lomandra longifolia
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments: 20-50%, cobbly, 60-200mm, , Dolerite

Profile Morphology

A11	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A12	0.02 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Loam (Heavy); Weak grade of structure, <2 mm, Subangular blocky; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A1A2	0.08 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A2s	0.18 - 0.25 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abundant, fine (1-2mm) roots; Clear change to -
B2	0.27 - 0.38 m	Brown (7.5YR4/2-Moist); , 10YR44; Heavy clay; Massive grade of structure; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
BC	0.38 - 0.53 m	Brown (7.5YR4/2-Moist); , 10YR44; Heavy clay; Massive grade of structure; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Dolerite, coarse fragments; Few, fine (1-2mm) roots; Clear change to -
C	0.53 - 0.71 m	Very dark greyish brown (2.5Y3/2-Moist); , 2.5Y54; , N80; Heavy clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Dolerite, coarse fragments;

Morphological Notes

Observation Notes

0-38CM CHARCOAL VARIES DOWNWARDS FROM <10% TO <2%:27-71CM GRIT VARIES THROUGH PROFILE FROM <30% TO >90%:

Site Notes

Project Name: **DER**
Project Code: **DER** **Site ID:** **H247** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

HOBART

Project Name: DER
Project Code: DER **Site ID:** H247 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.02	6.4A	0.063A	12.3H	4.3	0.55	0.3	6.4H 10.1E		27.6B	
0.02 - 0.08	6.5A	0.045A	9.9H	3.4	0.23	0.3	3.9H 7.9E		21.7B	
0.08 - 0.18	6.6A	0.042A	8.1H	2.5	0.14	0.28	2.8H 5.7E		16.7B	
0.18 - 0.25	6.8A	0.03A	5.9H	2.6	0.07	0.3	1.2H 4E		12.9B	
0.27 - 0.38	6.7A	0.045A	9H	6.9	0.08	0.76	1.8H 4.7E		21.4B	
0.38 - 0.53	6.7A	0.051A	10.5H	9.2	0.12	1.2	1.7H 4.4E		25.4B	
0.53 - 0.71	7.4A	0.068A	13.2H	11.6	0.15	1.7	3.1E		29.8B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02		5.7D		0.014D	0.29A			4	17B	45	17	11
0.02 - 0.08		2.66D		0.008D	0.161A			20	18B	49	18	10
0.08 - 0.18		1.93D			0.118A			22	21B	48	16	11
0.18 - 0.25		1.11D			0.06A			49	22D	50	17	11
0.27 - 0.38		0.55D			0.026A			28	17D	41	14	28
0.38 - 0.53								16	22D	33	12	33
0.53 - 0.71								48	27D	34	11	38

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.02									
0.02 - 0.08									
0.08 - 0.18									
0.18 - 0.25									
0.27 - 0.38									
0.38 - 0.53									
0.53 - 0.71									

Project Name: **DER**
Project Code: **DER** **Site ID:** **H247** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette