Project Name: CAP
Project Code: CAP **Site ID:** H149 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: Near quarry edge site of hole 520:3.2KM WNW from Boat Harbour:
Date Desc.: 03/07/56
Elevation: 152 metres
Map Ref.: Sheet No. : 8016 1:100000
Rainfall: 1140
Northing/Long.: 145.595833333333
Runoff: Rapid
Easting/Lat.: -40.9208333333333
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Soil pit, 0.7 m deep,Quartzite

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%
Pattern Type: Hills
Morph. Type: No Data
Relief: No Data
Elem. Type: Hillslope
Slope Category: Moderately inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Petroferric Bleached-Leptic Tenosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uc4.3
Great Soil Group: Podzol

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, , Sparse. *Species includes - None recorded
Mid Strata - Heath shrub, , Sparse. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus similis, Banksia serrata

Surface Coarse Fragments: 20-50%, , , Gravel

Profile Morphology

A1	0 - 0.06 m	Very dark grey (10YR3/1-Moist); ; Sand (Fibric); Single grain grade of structure; Moist; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, Quartzite, coarse fragments; AbundantDiffuse change to -
A1	0.06 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Sand (Fibric); Single grain grade of structure; Moist; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, Quartzite, coarse fragments; AbundantDiffuse change to -
A1A2	0.15 - 0.23 m	Dark grey (10YR4/1-Moist); ; Sand; Single grain grade of structure; Moist; Firm consistence; 50-90%, coarse gravelly, 20-60mm, Gravel, coarse fragments; ManyDiffuse change to -
A2	0.25 - 0.46 m	Grey (10YR5/1-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Gravel, coarse fragments; CommonDiffuse change to -
	0.51 - 0.66 m	Light grey (10YR7/1-Moist); ; Sand; Massive grade of structure; Rigid consistence; 50-90%, Gravel, coarse fragments; Other pans, Moderately cemented, Massive;

Morphological Notes

Observation Notes

AT 61CM VLG STRONGLY CEMENTED SANDY HARDPAN (IRON PAN):

Site Notes

WELLINGTON

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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 - 0.06	4.5A		7.1H	3.4	0.24	0.26	34.4H 43E		54B	
0.06 - 0.15	4.3A									
0.15 - 0.23	4.4A									
0.25 - 0.46	4.2A									
0.51 - 0.66										

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 - 0.06		10D		0.006D	0.374A			6	32B	38	7	4
0.06 - 0.15		4.4D			0.156A			9				
0.15 - 0.23					0.102A							
0.25 - 0.46												
0.51 - 0.66								52	42D	39	17	4

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 - 0.06									
0.06 - 0.15									
0.15 - 0.23									
0.25 - 0.46									
0.51 - 0.66									

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Project Code: **CAP** **Site ID:** **H149** **Observation ID:** **1**
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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
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