

Project Name: MEA
Project Code: MEA **Site ID:** H130 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.9KM NW of Bracknell on flattish top of narrow dolerite ridge approx 200m N of Bracknell/Westbury Rd:
Date Desc.:	23/11/55	Elevation:	244 metres
Map Ref.:		Rainfall:	1140
Northing/Long.:	146.888333333333	Runoff:	Very slow
Easting/Lat.:	-41.6333333333333	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.8 m deep,Dolerite

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Tor	Slope Category:	Gently inclined
Slope:	3.5 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Brown Chromosol		Principal Profile Form:	Db4.22
ASC Confidence:		Great Soil Group:	Gleyed podzolic soil
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments: 10-20%, , , Dolerite

Profile Morphology

0 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Massive grade of structure; Weak consistence; Common
0.1 - 0.18 m	Brown (10YR4/3-Moist); ; Clay loam, fine sandy; Massive grade of structure; Weak consistence; Common
0.23 - 0.38 m	Brown (10YR4/3-Moist); , 7.5YR44; , 5YR46; Fine sandy medium clay (Light); Massive grade of structure; Slightly plastic; Normal plasticity; Common, fine (1-2mm) roots; Diffuse change to -
0.38 - 0.53 m	Brown (10YR4/3-Moist); , 5YR46; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; FewDiffuse change to -
0.58 - 0.69 m	Brown (10YR5/3-Moist); , 7.5YR44; , 5YR46; Heavy clay; Massive grade of structure; Very firm consistence; FewDiffuse change to -
0.69 - 0.84 m	Brown (10YR5/3-Moist); , 7.5YR44; , 10YR81; Heavy clay; Massive grade of structure; Very firm consistence;
0.84 - 0.94 m	;

Morphological Notes

On parent material (probably dolerite boulder):

Observation Notes

GLEYING PROMINENT AROUND ROOTS AND IN ZONES AROUND AND BELOW DOLERITE STONES:

Site Notes

WESTBURY

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.08	5.5A		5.8H	4	0.29	0.18	7.7H		22.1B	
0.1 - 0.18	5.3A		2.9H	2.8	0.05	0.12	11.8E 3.2H 4.5E		10.4B	
0.23 - 0.38	5.4A									
0.38 - 0.53	6.3A		22.4H	28.8	0.14	1.04	3.2H 7.5E		59.9B	
0.58 - 0.69	6.3A									
0.69 - 0.84	6.6A		50.4H	47.4	0.1	0.63	1.5H 3.6E		102.1B	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		3D		0.015D	0.235A				3B	63	17	12
0.1 - 0.18		0.5D		0.004D	0.05A				2D	70	17	10
0.23 - 0.38		0.5D			0.047A				2D	58	11	26
0.38 - 0.53									2D	30	12	53
0.58 - 0.69									2B	18	23	52
0.69 - 0.84									5B	24	21	36

[illegible]

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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_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