

Project Name: PRO
Project Code: PRO **Site ID:** H127 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	Approx 4KM SSW of Nugent on Nugent/Sorell Road:
Date Desc.:	18/11/55	Elevation:	259 metres
Map Ref.:		Rainfall:	760
Northing/Long.:	147.737222222222	Runoff:	Moderately rapid
Easting/Lat.:	-42.745833333333	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 0.6 m deep,Dolerite

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:	12.3 %	Aspect:	45 degrees

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Yellow Chromosol		Principal Profile Form:	Dy5.62
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:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, , Dolerite

Profile Morphology

O1	0 - 0.01 m	Organic Layer; Dark grey (10YR4/1-Moist); ; Loam (Fibric); Weak consistence; Sharp change to -
A12	0.01 - 0.06 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
	0.06 - 0.13 m	Brown (10YR4/3-Moist); ; Fine sandy loam (Heavy); Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
	0.13 - 0.25 m	Brown (10YR4/3-Moist); ; Fine sandy loam (Heavy); Weak grade of structure, 2-5 mm, Subangular blocky; Very firm consistence; 10-20%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Sharp change to -
	0.25 - 0.41 m	Reddish yellow (7.5YR6/6-Moist); , 10YR73; , 10YR52; Medium clay; Massive grade of structure; Slightly plastic; Normal plasticity; 10-20%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions;
	0.46 - 0.61 m	Very pale brown (10YR7/3-Moist); , 10YR56; , 10YR52; Medium clay; Massive grade of structure; Slightly plastic; Normal plasticity; 20-50%, Gravel, coarse fragments;
	0.61 - 0.71 m	;

Morphological Notes

On parent material (dolerite):

Observation Notes

46-61CM GRITTY DECOMPOSED DOLERITE:0-1CM LEAF LITTER AND FAIRLY ORGANICDGL LOAM:

Site Notes

BUCKLAND

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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 %
0.01 - 0.06	5.5A		7.2H	4.8	0.19	0.29	6.6H 11.9E		24.4B	
0.06 - 0.13	5.7A		6.3H	5	0.21	0.29	6H 10.6E		22.4B	
0.13 - 0.25	5.4A		6.6H	5	0.18	0.35	6.5H 11E		23.1B	
0.25 - 0.41	6.2A		12.2H	8.5	0.14	0.88	3.3H 7.2E		28.9B	
0.46 - 0.61	7A		16H	10.7	0.16	1.1	4.1E		32.1B	

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			%		
0.01 - 0.06		2D		0.006D	0.108A			1	12B	40	28	14
0.06 - 0.13		1.4D		0.005D	0.091A			9	15B	39	26	14
0.13 - 0.25		1.2D			0.059A			14	17B	36	27	16
0.25 - 0.41		1.01D			0.046A			13	20B	30	21	27
0.46 - 0.61					0.028A			43	33B	28	17	21

[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_GRAV	Gravel (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette