Project Name: LON
Project Code: LON **Site ID:** H15 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Date Desc.: 05/12/51
Map Ref.: Sheet No. : 8314 1:100000
Northing/Long.: 147.033333333333
Easting/Lat.: -41.5666666666667
Locality: 8.1km WNW of Longford and 4.8km SSE of Carrick:
Elevation: 168 metres
Rainfall: 650
Runoff: Rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Upper-slope
Elem. Type: Lunette
Slope: 0 %
Pattern Type: Dunefield
Relief: 6 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc4.2
Great Soil Group: Earthy sand

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Fern, 0.26-0.5m, Closed or dense. *Species includes - Pteridium esculentum

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR5/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Diffuse change to -
A1A2	0.1 - 0.25 m	Brown (7.5YR5/4-Moist); ; Sand; Single grain grade of structure; Very weak consistence; CommonDiffuse change to -
	0.25 - 0.51 m	Yellowish red (5YR4/6-Moist); ; Sand (Heavy); Single grain grade of structure; Weak consistence; Diffuse change to -
	0.51 - 0.63 m	Strong brown (7.5YR5/6-Moist); ; Sand (Heavy); Single grain grade of structure; Weak consistence; Diffuse change to -
	0.63 - 0.91 m	Yellowish brown (10YR5/7-Moist); ; Sand; Single grain grade of structure; Weak consistence; Diffuse change to -
	1.02 - 1.07 m	Light brownish grey (10YR6/2-Moist); , 10YR56; Clayey sand; Single grain grade of structure; Sharp, Wavy change to -
	1.07 - 1.08 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Silcrete, Strongly cemented, Massive; Sharp, Wavy change to -
	1.08 - 1.22 m	Strong brown (7.5YR5/8-Moist); ; Clayey sand; Silcrete, Moderately cemented, Platy;
	2.29 - 2.41 m	Yellowish brown (10YR5/4-Moist); , 10YR71; Sand; 0-2%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

122-170CM <10% FE CONCRETIONS <12MM:251-320CM PROBABLY LATERITIC B HORIZON OF KAOLINITIC CLAY:WILMORE SERIES.

Site Notes

WESTMORLAND

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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 - 0.1	5.3A		1.9H	1	0.19	0.11	4.7H 7.5E		10.7B	
0.1 - 0.25	5.4A									
0.25 - 0.51	5.5A									
0.51 - 0.63	5.5A									
0.63 - 0.91	6.1A									
1.02 - 1.07	5.6A		0.4H	0.9	0.07	0.13	2.54H 4.5E		6B	
1.07 - 1.08	5.2A									
1.08 - 1.22	5.5A									
2.29 - 2.41	4.7A				2					

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 - 0.1		1.5D		0.009D	0.16A			0	22B	68	5	5
0.1 - 0.25		0.9D		0.006D	0.09A							
0.25 - 0.51		0.4D			0.042A							
0.51 - 0.63		0.3D			0.026A							
0.63 - 0.91												
1.02 - 1.07		0.3D		0.004D	0.034A			0	13B	63	8	15
1.07 - 1.08		0.2D		0.005D	0.022A			0	17B	58	10	14
1.08 - 1.22												
2.29 - 2.41								1	19B	62	5	15

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 - 0.1									
0.1 - 0.25									
0.25 - 0.51									
0.51 - 0.63									
0.63 - 0.91									
1.02 - 1.07									
1.07 - 1.08									
1.08 - 1.22									
2.29 - 2.41									

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette