Project Name: FLI
Project Code: FLI **Site ID:** H43 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Date Desc.: 03/12/52
Map Ref.: Sheet No. : 8518 1:100000
Northing/Long.: 148.05
Easting/Lat.: -40
Locality: 3.2km NW of MemamaE
Elevation: 31 metres
Rainfall: 730
Runoff: Slow
Drainage: Very poorly 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: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Plain
Relief: No Data
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Sodosolic Redoxic Hydrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Gn4.41
Great Soil Group: Humic gley

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

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

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Black (10YR2/1-Moist); ; Loam (Sapric); Weak grade of structure, Granular; Moist; Weak consistence; Non-plastic; Non-sticky; Very few (0 - 2 %), Unidentified, Medium (2 -6 mm), Soft segregations; AbundantDiffuse change to -
A	0.05 - 0.1 m	Black (10YR2/1-Moist); ; Clay loam; Weak grade of structure, Granular; Moist; Weak consistence; Non-plastic; Non-sticky; Common (10 - 20 %), Unidentified, Coarse (6 - 20 mm), Concretions; CommonDiffuse change to -
AB	0.11 - 0.18 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Moist; Very weak consistence; Very plastic; Normal plasticity; Non-sticky; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Coarse (6 - 20 mm), Concretions; CommonDiffuse change to -
B	0.18 - 0.36 m	Greyish brown (10YR5/2-Moist); , 10YR68; Heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moist; Very plastic; Normal plasticity; Slightly sticky; 2-10%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, , Concretions; Diffuse change to -
B	0.36 - 0.56 m	Light brownish grey (10YR6/2-Moist); , 10YR68; , 10YR42; Heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moist; Very plastic; Normal plasticity; Slightly sticky; 2-10%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, , Concretions; Diffuse change to -
B	0.56 - 0.76 m	Light grey (10YR7/1-Moist); , 10YR68; , 2.5YR48; Heavy clay; Massive grade of structure; Moist; Very plastic; Normal plasticity; Slightly sticky; 2-10%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, , Concretions; Diffuse change to -
	0.91 - 1.14 m	Bluish grey (5B5/1-Moist); , 10YR56; Heavy clay; Massive grade of structure; Very plastic; Normal plasticity; Slightly sticky; 2-10%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, , Concretions; CommonDiffuse change to -
	1.65 - 1.78 m	Light bluish grey (5B7/1-Moist); , 10YR68; , 2.5YR48; Heavy clay; Massive grade of structure; Very plastic; Normal plasticity; Slightly sticky; 2-10%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, , Concretions;

Morphological Notes

Observation Notes

PATRIARCH SERIES

Site Notes

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LUGHRATA

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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 - 0.05	6.1A							40.6C		
0.05 - 0.1	6.2A		8.5H	11	1.3	2.6	18.1H 36.3E	37.6C	59.7B	6.91
0.11 - 0.18	6.2A		5.1H	8.2	0.92	2.2	7.2H 14.6E	26.4C	31B	8.33
0.18 - 0.36	6A							24.6C		
0.36 - 0.56	6.2A							22.8C		
0.56 - 0.76	5.9A									
0.91 - 1.14	6.4A		4H	9.2	0.2	5.4	1.85H 4.6E	24.2C	23.4B	22.31
1.65 - 1.78	6.9A									

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 - 0.05		6.44D		0.006D	0.518A							
0.05 - 0.1		4.78D			0.4A			2	4B	13	17	55
0.11 - 0.18		2.42D		0.003D	0.199A			2	11B	17	17	51
0.18 - 0.36		1.43D										
0.36 - 0.56		1.14D		0.003D								
0.56 - 0.76												
0.91 - 1.14				0.003D				3	10B	16	14	59
1.65 - 1.78												

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 - 0.05										
0.05 - 0.1										
0.11 - 0.18										
0.18 - 0.36										
0.36 - 0.56										
0.56 - 0.76										
0.91 - 1.14										
1.65 - 1.78										

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Laboratory Analyses Completed for this profile

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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