Project Name: FLI
Project Code: FLI **Site ID:** H109 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: 6CH E OF SITE 444 WHICH IS NEAR N EDGE OF LARGE ROAD QUARRY:5.5ML NE OFLEEKA:
Date Desc.: 31/03/54
Elevation: 61 metres
Map Ref.: Sheet No. : 8418 1:100000
Rainfall: 737
Northing/Long.: 147.883333333333
Runoff: Moderately rapid
Easting/Lat.: -39.8666666666667
Drainage: No Data

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Granite

Land Form

Rel/Slope Class: No Data
Pattern Type: Hills
Morph. Type: Simple-slope
Relief: No Data
Elem. Type: Hillslope
Slope Category: Gently inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Dystrophic Grey Kurosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg4.21
Great Soil Group: Soloth

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Sedge, , . *Species includes - None recorded
Mid Strata - Malle shrub, , . *Species includes - None recorded

Surface Coarse Fragments: 20-50%, , angular, Quartz

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Sandy loam; Massive grade of structure; Moderately moist; Weak consistence; 10-20%, angular, Quartz, coarse fragments; ManyDiffuse change to -
A1	0.05 - 0.13 m	Dark grey (10YR4/1-Moist); ; Loamy sand (Heavy); Massive grade of structure; Moderately moist; Firm consistence; 10-20%, angular, Quartz, coarse fragments; CommonDiffuse change to -
A2	0.17 - 0.24 m	Dark grey (10YR4/1-Moist); ; Sand; Single grain grade of structure; Moderately moist; Firm consistence; 50-90%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; CommonDiffuse change to -
	0.24 - 0.27 m	Grey (10YR6/1-Moist); ; Light clay; Single grain grade of structure; 20-50%, angular, Quartz, coarse fragments; Diffuse change to -
B	0.27 - 0.41 m	White (10YR8/2-Moist); , 10YR58; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Moderately moist; Very firm consistence; 10-20%, angular, reoriented, Quartz, coarse fragments; CommonDiffuse change to -
B	0.41 - 0.58 m	White (10YR8/1-Moist); , 10YR58; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Moderately moist; Very firm consistence; 2-10%, angular, Quartz, coarse fragments; CommonDiffuse change to -
B	0.58 - 0.74 m	White (10YR8/1-Moist); , 10YR68; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderately moist; Firm consistence; 10-20%, angular, Quartz, coarse fragments; Field pH 4 (pH meter); CommonDiffuse change to -
B	0.74 - 0.94 m	White (10YR8/1-Moist); , 10YR68; , 5YR54; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderately moist; Firm consistence; 2-10%, angular, Quartz, coarse fragments; Common
B	1.02 - 1.12 m	Brownish yellow (10YR6/8-Moist); , 10YR81; Medium clay; Massive grade of structure; Moderately moist; Very weak consistence; 10-20%, angular, Quartz, coarse fragments;
	1.52 - 1.68 m	White (10YR8/1-Moist); , 10YR58; , 2.5YR58; Silty medium clay; Massive grade of structure; Weak consistence; 10-20%, angular, Quartz, coarse fragments;

Morphological Notes

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Observation Notes

27-41CM GRAVEL CONCENTRATED IN CENTRES OF PRISMS:27-94CM ROOTS PACKED IN CRACKS OF CLAY HORIZONS:

Site Notes

LIAPOTA

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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	4.8A		2.6H	0.87	0.14	0.4	11.1H 15E		19B	
0.05 - 0.13	4.7A							4C		
0.17 - 0.24	4.8A							3C		
0.24 - 0.27	4.8A									
0.27 - 0.41	4.8A		0.68H	1.3	0.11	0.52	11.1H 15.5E		18.1B	
0.41 - 0.58	5A									
0.58 - 0.74	5.1A									
0.74 - 0.94	4.9A		0.54H	3.1	0.04	1.2	4.5H 5.9E		10.8B	
1.02 - 1.12	4.9A									
1.52 - 1.68	4.8A		0.69H	2.7	0.05	0.92	3H 4.6E		9B	

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		3.2D		0.003D	0.152A			16	37B	44	8	6
0.05 - 0.13		1.6D			0.067A							
0.17 - 0.24		0.8D										
0.24 - 0.27												
0.27 - 0.41		1D						12	17D	10	10	60
0.41 - 0.58												
0.58 - 0.74												
0.74 - 0.94		0.1D						6	11D	6	21	59
1.02 - 1.12												
1.52 - 1.68								17	19D	6	37	37

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 - 0.13									
0.17 - 0.24									
0.24 - 0.27									
0.27 - 0.41									
0.41 - 0.58									
0.58 - 0.74									
0.74 - 0.94									
1.02 - 1.12									
1.52 - 1.68									

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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 (%)
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