Project Name: FLI
Project Code: FLI **Site ID:** H107 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: 3CH inland from beach:south east of north end of Ferguson's Lagoon:3.5MLS east south east of Wingaroo:
Date Desc.: 30/03/54
Elevation: 5 metres
Map Ref.: Sheet No. : 8518 1:100000
Rainfall: 737
Northing/Long.: 148.083333333333
Runoff: Moderately rapid
Easting/Lat.: -39.85
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Pattern Type: Beach ridge plain
Morph. Type: Simple-slope
Relief: No Data
Elem. Type: Dune
Slope Category: Gently inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion: Minor or present (wind);

Soil Classification

Australian Soil Classification:
Calcareous Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uc2.2
Great Soil Group: Calcareous sand

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Shrub, , . *Species includes - None recorded

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Shells

Profile Morphology

A	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Sand (Fibric); Single grain grade of structure; Dry; Very weak consistence; ManyDiffuse change to -
A	0.1 - 0.2 m	Grey (10YR6/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Common, coarse (>5mm) roots; Diffuse change to -
AC	0.2 - 0.28 m	Grey (10YR6/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; ManyDiffuse change to -
C	0.38 - 0.51 m	Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; CommonDiffuse change to -
C	0.51 - 0.71 m	White (10YR8/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Diffuse change to -
C	0.79 - 0.94 m	White (10YR8/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence;
C	0.94 - 1.12 m	White (10YR8/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence;
C	1.12 - 1.35 m	White (10YR8/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; 2-10%, Shells, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

MEMANA

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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	8A		12.7H	2.2	0.16	0.8	1.3E		17.2B	
0.1 - 0.2	8.4A							8C		
0.2 - 0.28	8.8A							3.5C		
0.38 - 0.51	8.9A									
0.51 - 0.71	9A									
0.79 - 0.94	9.3A									
0.94 - 1.12	9.2A									
1.12 - 1.35	8.8A									

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	0.6A	1.9D		0.015D	0.174A			0	59B	31	<1	2
0.1 - 0.2	1.9A	1.1D			0.068A							
0.2 - 0.28	2.4A	0.5D										
0.38 - 0.51	4.4A											
0.51 - 0.71	5.1A											
0.79 - 0.94	5.6A							0	72B	21	<1	2
0.94 - 1.12	5.3A											
1.12 - 1.35	4.8A											

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 - 0.2									
0.2 - 0.28									
0.38 - 0.51									
0.51 - 0.71									
0.79 - 0.94									
0.94 - 1.12									
1.12 - 1.35									

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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
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)
19A1	Carbonates - rapid titration
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