

Project Name: FLI
Project Code: FLI **Site ID:** H98 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	Approx 1.3km S along coast from Middle Inlet
Date Desc.:	16/08/54	Elevation:	8 metres
Map Ref.:	Sheet No. : 8518 1:100000	Rainfall:	730
Northing/Long.:	148.166666666667	Runoff:	Rapid
Easting/Lat.:	-39.933333333333	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Dunefield
Morph. Type:	Open depression (vale)	Relief:	No Data
Elem. Type:	Swale	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion: Moderate (wind);

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Parapanic Humic Semiaquic Podsol	Principal Profile Form:	Uc4.33
ASC Confidence:	Great Soil Group:	Podzol

Analytical data are incomplete but reasonable confidence.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Sand (Fibric); Single grain grade of structure; Moderately moist; Very weak consistence; AbundantDiffuse change to -
A1	0.08 - 0.2 m	Light brownish grey (10YR6/2-Moist); ; Sand (Fibric); Single grain grade of structure; Dry; Very weak consistence; CommonDiffuse change to -
A2	0.2 - 0.33 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Sharp, Tongued change to -
BA2C	0.48 - 0.66 m	; Sand (Fibric); Organic pan, Weakly cemented, Continuous;
C	1.04 - 1.24 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, Shells, coarse fragments;
C	1.24 - 1.47 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, Shells, coarse fragments;
C	3.45 - 3.61 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; 2-10%, medium gravelly, 6-20mm, Shells, coarse fragments;

Morphological Notes

Observation Notes

48-66CM MIXTURE OF CONVULUTING 4CM THICK WEAKLY CEMENTED COFFEE PAN(B)+LGB CALCAREOUS SAND(C) AND VLbG SAND(A2): LACKRANA SERIES:

Site Notes

MEMANA

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.08	5.7A		10.2H	2.9	0.12	0.28	8.6H 11.4E		24.9B
0.08 - 0.2	4.8A							4C	
0.2 - 0.33	5.6A								
0.48 - 0.66	6.9A								
1.04 - 1.24	8.1A		0.57H	0.23	0.13	0.73		1.66B	
1.24 - 1.47	8.5A								
3.45 - 3.61	8.5A								

Depth	CaCO ₃	Organic C	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m ³	Particle GV	Size CS FS %	Analysis Silt Clay
m	%	%								
0 - 0.08		3.3D		0.005D	0.238A			0	69D	32 0 1
0.08 - 0.2		0.9D			0.07A					
0.2 - 0.33		0.3D								
0.48 - 0.66										
1.04 - 1.24	3.3A							0	58B	36 8 0
1.24 - 1.47	3.3A									
3.45 - 3.61	4.4A									

[illegible]

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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 (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)
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 (%)
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