FLI **Project Name:**

Project Code: FLI Site ID: H41 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Locality: K.D. Nicholls 1.2km NE of Logan Lagoon:11.3km from Lady Barron:

Desc. By: Date Desc.: Elevation: 29/05/52 15 metres Map Ref.: Sheet No.: 8517 1:100000 Rainfall: 750 Northing/Long.: Runoff: 148.3 Rapid

. Rapidly drained Easting/Lat.: Drainage: -40.15

Geology

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

Land Form

Rel/Slope Class: Rolling plains <9m 10-32% Dunefield Pattern Type: Morph. Type: No Data Relief: 5 metres

Elem. Type: Slope Category: Moderately inclined Dune

Slope: 0 % Aspect: No Data

Surface Soil Condition (dry): Loose, Soft

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Basic Grey Orthic Tenosol **Principal Profile Form:** Uc4.33 Podzol **ASC Confidence: Great Soil Group:**

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Tall Strata - Shrub, 1.01-3m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology							
A1	0 - 0.15 m	Grey (10YR5/1-Dry); ; Sand (Fibric); Single grain grade of structure; Moderately moist; Very weak consistence; AbundantDiffuse change to -					
	0.15 - 0.3 m	Light brownish grey (10YR6/2-Dry); ; Sand; Single grain grade of structure; Very weak consistence; AbundantDiffuse change to -					
A2	0.3 - 0.48 m	Light brownish grey (10YR6/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Diffuse change to -					
В	0.48 - 0.74 m	Light brownish grey (10YR6/2-Dry); , 10YR33; , 5Y72; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Clear, Wavy change to -					
	0.74 - 0.74 m	;					
С	0.74 - 1.09 m	Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence;					
С	1.09 - 1.45 m	White (10YR8/2-Dry); , 5Y72; Sand; Single grain grade of structure; Moderately moist; Loose consistence;					

White (10YR8/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose

White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose

Morphological Notes

2.54 - 2.64 m

3.68 - 3.78 m

consistence:

consistence;

Observation Notes

SAMPLE 5 IS ORGANIC PAN 25MM THICK TAKEN FROM 48-74CM HORIZON:LACKRANA SERIES:

Site Notes

NALA

С

С

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Depth	рН	1:5 EC		nangeable Vig	Cations K	Na	Exchangeable Acidity	CEC	E	CEC	ı	ESP
m		dS/m	Ca i	"Y	K	Cmol (+						%
0 - 0.15	6.7A		9.3H	2.5	0.1	0.15	4H 5.7E	14.20	C 1	7.8B	1	1.06
0.15 - 0.3	6A											
0.3 - 0.48	6.2A							2.60	;			
0.48 - 0.74	8.6A							3.60	;			
0.74 - 0.74	8.4A											
0.74 - 1.09	9.4A											
1.09 - 1.45	9.7A							1.6C	;			
2.54 - 2.64	9.8A											
3.68 - 3.78	9.8A											
Depth	CaCO3	Organic	Avail.	Total	Total	Total				Size Aı	-	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.15		2.4D		0.004[0.1	5A			34B	60	<1	2
0.15 - 0.3		1.5D		0.001	0.06	67A						
0.3 - 0.48		0.3D		0.003[0.02	26A			32B	66	<1	1
0.48 - 0.74	2.3A	0.3D										
0.74 - 0.74		0.4D		0.011	0.03	39A						
0.74 - 1.09	6.5A	0.1D										
1.09 - 1.45	6.6A			0.013[)				65B	26	<1	<1
2.54 - 2.64	5A											
3.68 - 3.78	5A											
Depth	COLE		Grav	imetric/Vo	olumetric V	Vater Con			K sat	: к	unsa	t
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15 I	Bar	mm/h	ı	mm/h	

0 - 0.15 0.15 - 0.3 0.3 - 0.48 0.3 - 0.48 0.48 - 0.74 0.74 - 0.74 0.74 - 1.09 1.09 - 1.45 2.54 - 2.64 3.68 - 3.78

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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

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 Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) Carbonates - rapid titration

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 Total nitrogen - semimicro Kjeldahl , automated colour

9A_HCL Total element - P(%) - By boiling HCl

P10A1_C Clay (%) - Pipette

P10A1_CS Coarse sand (%) - Pipette
P10A1_FS Fine sand (%) - Pipette
P10A1_Z Silt (%) - Pipette