FLI **Project Name:**

Project Code: Observation ID: 1 FLI Site ID: H76

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Locality: Desc. By: C.G. Stephens 9.7km NNW of Lughrata + 8.1km ENE from Leeka

Date Desc.: Elevation: 28/01/54 46 metres Map Ref.: Sheet No.: 8418 1:100000 Rainfall: 710

Northing/Long.: 147.8833333333333 Runoff:

Moderately rapid -39.88333333333333 Drainage: Poorly drained Easting/Lat.:

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Pediment Morph. Type: Lower-slope Relief: No Data Elem. Type: No Data Slope Category: Gently inclined Slope: 0 % Aspect: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Parapanic Humic Aquic Podosol **Principal Profile Form:** Uc4.33 **ASC Confidence: Great Soil Group:** Humus podzol

Analytical data are incomplete but reasonable confidence. Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.26-0.5m, Very sparse. *Species includes - None recorded

Tall Strata - Heath shrub, 1.01-3m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Drofile Marchales

Profile	worphology	
A1	0 - 0.18 m	Dark grey (10YR4/1-Moist); ; Loamy sand (Fibric); Single grain grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; AbundantDiffuse change to -
A21	0.23 - 0.46 m	Greyish brown (10YR5/2-Moist); ; Loamy sand; Single grain grade of structure; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Diffuse change to -
A22	0.46 - 0.63 m	Grevish brown (10YR5/2-Moist): : Loamy sand: Single grain grade of structure: Very weak

consistence; 50-90%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Sharp change to -

R1 Black (10YR2/1-Moist); ; Loamy sand; Massive grade of structure; 10-20%, fine gravelly, 2-6mm, 0.65 - 0.74 m Quartz, coarse fragments; Organic pan, Moderately cemented, Massive; Sharp change to -

R2 Light brown (7.5YR6/4-Moist); ; Clayey sand; Single grain grade of structure; Weak consistence; $0.75 - 0.89 \, \text{m}$ 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Diffuse change to -

Light brownish grey (10YR6/2-Moist); ; Clayey sand; Single grain grade of structure; Weak BC 0.89 - 1.04 m consistence; 10-20%, fine gravelly, 2-6mm, Gravel, coarse fragments; Diffuse change to -

> Yellow (10YR7/8-Moist); , 10YR71; Sandy medium clay; Massive grade of structure; Moderately plastic; Normal plasticity; 50-90%, fine gravelly, 2-6mm, Gravel, coarse fragments; Diffuse

change to -

1.37 - 1.52 m Light grey (10YR7/1-Moist); Clayey sand; Massive grade of structure; 50-90%, fine gravelly, 2-6mm, Gravel, coarse fragments;

Morphological Notes

1.12 - 1.29 m

Observation Notes

STRONG H2S SMELL BELOW 150CM:65-74CM LAYERED ORGANIC HARD PAN:KILLIECRANKIE SERIES:

Site Notes

LIAPOTA

ВС

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Laboratory Test Results

Depth	pH	1:5 EC	Excl	nangeable	Cations	E	xchangeable	CEC	E	CEC	ESP	
m	m dS/m	dS/m	Ca I	Mg	K	Na Cmol (+)/	Acidity /kg				%	
0 - 0.18	4.8A		1.7B	1.9	0.08	0.45	11.8H 14.8E		,	19B		
0.23 - 0.46	4.9A						11.02	2.50	;			
0.46 - 0.63	4.7A							1.5C	;			
0.65 - 0.74	5A							11C				
0.75 - 0.89	5.2A		0.2B	0.3	0.07	0.18	4.3H 5.8E		6	.55B		
0.89 - 1.04	4.8A											
1.12 - 1.29	4.9A											
1.37 - 1.52	5.6A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV		ize Ar FS	nalysis Silt Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.18		5A		0.003	A 0.15	58A		1	55D	30	5 2	
0.23 - 0.46		1.22A		0.002								
0.46 - 0.63		0.41A			0.02							
0.65 - 0.74		1.74A		0.005	0.05	53A						
0.75 - 0.89		0.41A						13	65D	22	3 8	
0.89 - 1.04												
1.12 - 1.29												
1.37 - 1.52												
Depth	·								K sat	К	unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15 E	3ar	mm/h	ı	mm/h	

0 - 0.18 0.23 - 0.46 0.46 - 0.63 0.65 - 0.74

0.75 - 0.89 0.89 - 1.04 1.12 - 1.29 1.37 - 1.52

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Laboratory Analyses Completed for this profile

15A2_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

15A2_K
15A2_MG
15A2_MG
15A2_NA
15A2_NA
15D1_CEC
15G_C_H1
15G1_H
15J_H
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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 Exc. 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 Organic carbon - Walkley and Black

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9A1 Total phosphorus - X-ray fluorescence

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