FLI **Project Name:** 

**Project Code:** FLI Site ID: H105 Observation ID: 1

**Agency Name: CSIRO Division of Soils (TAS)** 

**Site Information** 

Desc. By: G.M. Dimmock Locality: Near site 488:1.5ML south west of Palana:west side

of roadside:

Date Desc.: Elevation: 26/03/54 27 metres Rainfall: Sheet No.: 8318 1:100000 711

Map Ref.: Northing/Long.: Moderately rapid 147.9 Runoff: Easting/Lat.: -39.7666666666667 Drainage: Well drained

Geology

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

**Land Form** 

Rel/Slope Class: Rolling plains <9m 10-32% Pattern Type: Dunefield Morph. Type: Relief: No Data Crest Gently inclined Elem. Type: Slope Category: Dune 0 % Aspect: No Data Slope:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Uc6.13 Haplic Regolithic Hypercalcic Calcarosol **Principal Profile Form:** 

**ASC Confidence: Great Soil Group:** Calcareous sand

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated **Vegetation:** Low Strata - Tussock grass, , . \*Species includes - None recorded

#### **Surface Coarse Fragments:**

0 000 ---

А	0 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Loamy sand; Moist; Weak consistence; 0-2%, Charcoal, coarse fragments; ManyDiffuse change to -
Α	0.1 - 0.23 m	Dark brown (7.5YR3/4-Moist); ; Loamy sand (Light); Massive grade of structure; Moist; Weak consistence; Diffuse change to -
	0.23 - 0.41 m	Brown (7.5YR5/4-Moist); ; Sand; Massive grade of structure; Very weak consistence; Diffuse change to -
	0.41 - 0.56 m	Pinkish grey (7.5YR6/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Gradual change to -
	0.56 - 0.74 m	Pinkish grey (7.5YR6/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence;
	0.74 - 0.89 m	Pinkish grey (7.5YR6/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 8 (pH meter);
	0.89 - 1.04 m	Pinkish grey (7.5YR6/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence;
	1.04 - 1.42 m	Pink (7.5YR7/4-Moist); ; Sand; Single grain grade of structure; Very weak consistence;
	3.45 - 3.68 m	Brown (7.5YR5/4-Moist); ; Clayey sand (Light); Massive grade of structure; Firm consistence;

Dark brown (7 EVD2/2 Maist), I comy and Maist Wask consistence (20% Charges) access

### **Morphological Notes**

## **Observation Notes**

## **Site Notes**

**LOIPUNE** 

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# **Laboratory Test Results:**

Laboratory			_			_				
Depth	pН	1:5 EC		hangeable Mg	Cations K	Exchangeal Na Acidity		CEC	ECE	C ESP
m		dS/m	<b>O</b> a	wy	K	Cmol (+)/				%
0 - 0.08	8.4A		21.1H	2.4	0.56	1.1			25.2	:B
0.1 - 0.23	8.7A							13C		
0.23 - 0.41	8.9A							9.5C	;	
0.41 - 0.56	8.8A									
0.56 - 0.74	9.1A									
0.74 - 0.89	9A									
0.89 - 1.04	9.2A									
1.04 - 1.42	9.3A									
3.45 - 3.68	9.2A									
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.08	7A	4.1D		0.0720	0.40	5A		0	52B 2	20 3 11
0.1 - 0.23	15.5A	1.2D			0.10	6A				
0.23 - 0.41	28A	0.6D								
0.41 - 0.56	43A	0D								
0.56 - 0.74	51A	0.4D								
0.74 - 0.89	53.5A			0.028	)					
0.89 - 1.04	53.5A									
1.04 - 1.42	53.5A									
3.45 - 3.68	35.5A									
Depth	COLE	Sat.	Grav 0.05 Bar	rimetric/Vo 0.1 Bar	lumetric W 0.5 Bar	ater Conte		i Bar	K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3		3 Bar 13	о Баг	mm/h	mm/h
0 - 0.08 0.1 - 0.23 0.23 - 0.41 0.41 - 0.56 0.56 - 0.74 0.74 - 0.89 0.89 - 1.04 1.04 - 1.42 3.45 - 3.68										

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#### **Laboratory Analyses Completed for this profile**

12\_HCL\_FE Total element - Fe(%) - Total acid(HCl) extractable Fe

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 5E1\_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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 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