

**Project Name:** LAK  
**Project Code:** LAK      **Site ID:** H51      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	C.G. Stephens	<b>Locality:</b>	3.2km SSE of Conara Junction:
<b>Date Desc.:</b>	23/01/53	<b>Elevation:</b>	192 metres
<b>Map Ref.:</b>	Sheet No. : 8314    1:100000	<b>Rainfall:</b>	560
<b>Northing/Long.:</b>	147.45	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-41.85	<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Pedal Aquic Vertosol		<b>Principal Profile Form:</b>	Ug5.17
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Wiesenboden
All necessary analytical data are available.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Danthonia species

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.08 m	(N3/0-Moist); ; Heavy clay; 10-20 mm; Very strong consistence; Diffuse change to -
0.08 - 0.25 m	(N2/0-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Slightly plastic; Normal plasticity; Diffuse change to -
0.25 - 0.38 m	(N2/0-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 20-50 mm, Angular blocky; Slightly plastic; Normal plasticity; Very few (0 - 2 %), Gypseous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
0.38 - 0.53 m	Black (5Y2/1-Moist); , 5Y51; Heavy clay; 20-50 mm, Subangular blocky; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, Gravel, coarse fragments; Diffuse change to -
0.53 - 0.64 m	Very dark grey (5Y3/1-Moist); , 5Y51; Heavy clay; 20-50 mm, Subangular blocky; Slightly plastic; Normal plasticity; Slightly sticky; 10-20%, Gravel, coarse fragments; Diffuse change to -
0.64 - 0.76 m	Very dark greyish brown (2.5Y3/2-Moist); ; Heavy clay; Massive grade of structure; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, Gravel, coarse fragments; Diffuse change to -
0.76 - 0.94 m	Very dark greyish brown (2.5Y3/2-Moist); ; Heavy clay; Massive grade of structure; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, Gravel, coarse fragments; Diffuse change to -
1.14 - 1.3 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y64; Medium heavy clay; Diffuse change to -
2.36 - 2.44 m	Bluish grey (5B5/1-Moist); , 2.5Y64; Sandy medium clay;

**Morphological Notes**

**Observation Notes**

114-130CM POCKETS OF SANDY CLAY:

**Site Notes**

SOMERSET

**Observation ID: 1**

**Laboratory Test Results:**

[illegible][illegible][illegible]

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**Laboratory Analyses Completed for this profile**

15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_St	Smectite - X-Ray Diffraction