

**Project Name:** LSG  
**Project Code:** LSG      **Site ID:** CP71      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	P.H. Walker	<b>Locality:</b>	High terrace:
<b>Date Desc.:</b>	//	<b>Elevation:</b>	600 metres
<b>Map Ref.:</b>	Sheet No. : 8727 1:100000	<b>Rainfall:</b>	640
<b>Northing/Long.:</b>	149.186111111111	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-35.319444444445	<b>Drainage:</b>	Moderately well drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Valley flat	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	125 degrees

**Surface Soil Condition (dry):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodic Eutrophic Brown Chromosol		<b>Principal Profile Form:</b>	Dy
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic soil
All necessary analytical data are available.			

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Firm consistence; Field pH 5.5 (pH meter); Clear change to -
A12	0.05 - 0.1 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Dry; Very firm consistence; Field pH 5.6 (pH meter); Clear change to -
A2	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; 7.5YR44, 2-10% ; , 2-10% ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5.6 (pH meter); Gradual change to -
A2	0.2 - 0.25 m	Reddish brown (5YR4/4-Moist); Reddish yellow (7.5YR6/6-Dry); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5.9 (pH meter); Abrupt change to -
B	0.25 - 0.3 m	Reddish brown (2.5YR5/4-Moist); ; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Field pH 6.1 (pH meter); Clear change to -
B	0.3 - 0.4 m	Yellowish brown (10YR5/6-Moist); , 10YR56, 0-2% ; , 0-2% ; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6.5 (pH meter); Gradual change to -
B	0.4 - 0.5 m	Light olive brown (2.5Y5/6-Moist); , 5YR56, 20-50% ; , 10YR56, 20-50% ; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Field pH 6.8 (pH meter); Gradual change to -
B	0.5 - 0.6 m	Yellowish red (5YR4/6-Moist); , 2.5YR54, 20-50% ; , 20-50% ; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 7 (pH meter); Clear change to -
BC	0.6 - 0.7 m	Olive brown (2.5Y4/6-Moist); , 5YR46, 2-10% ; , 2.5Y30, 2-10% ; Heavy clay; Massive grade of structure; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.3 (pH meter); Gradual change to -
BC	0.7 - 0.8 m	Olive brown (2.5Y4/6-Moist); , 5YR46, 2-10% ; , 2.5Y30, 2-10% ; Heavy clay; Massive grade of structure; Dry; Very strong consistence; Field pH 7.8 (pH meter); Gradual change to -

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BC	0.8 - 0.9 m	Light olive brown (2.5Y5/4-Moist); , 5YR46, 2-10% ; , 2.5Y30, 2-10% ; Heavy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.2 (pH meter); Gradual change to -
BC	0.9 - 1 m	Light olive brown (2.5Y5/4-Moist); , 5YR58, 2-10% ; , 2.5Y41, 2-10% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.4 (pH meter); Gradual change to -
C	1.1 - 1.2 m	Brown (7.5YR4/4-Moist); , 7.5YR58, 2-10% ; , 2-10% ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 8.6 (pH meter); Gradual change to -
C	1.3 - 1.4 m	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.8 (pH meter); Gradual change to -
C	1.4 - 1.5 m	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.8 (pH meter); Clear change to -
Ck	1.6 - 1.7 m	Brown (7.5YR4/4-Moist); , 2.5YR36, 2-10% ; , 2.5YR42, 2-10% ; Medium clay; Massive grade of structure; Dry; Very strong consistence; Common (10 - 20 %), Gypseous, Very coarse (20 - 60 mm), Concretions; Field pH 9 (pH meter); Gradual change to -
Ck	1.7 - 1.8 m	Light olive grey (5Y6/2-Moist); , 7.5YR56, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Gypseous, Very coarse (20 - 60 mm), Concretions; Field pH 8.9 (pH meter); Gradual change to -
C	1.8 - 2 m	Light olive grey (5Y6/2-Moist); , 7.5YR56, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Dry; Very strong consistence; Field pH 8.6 (pH meter);

#### **Morphological Notes**

#### **Observation Notes**

ALLUVIAL:BIOTIC TO 25CM:50-150CM LUSTRIOUS PED FACES:

#### **Site Notes**

PIALLIGO

**Observation ID: 1**

[illegible]

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0.3 - 0.4  
0.4 - 0.5  
0.5 - 0.6  
0.6 - 0.7  
0.7 - 0.8  
0.8 - 0.9  
0.9 - 1  
1.1 - 1.2  
1.3 - 1.4  
1.4 - 1.5  
1.6 - 1.7  
1.7 - 1.8  
1.8 - 2

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**Laboratory Analyses Completed for this profile**

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
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
7_NR	Total nitrogen (%) - Not recorded
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