

**Project Name:** LSG  
**Project Code:** LSG      **Site ID:** CP72      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	P.H. Walker	<b>Locality:</b>	
<b>Date Desc.:</b>	01/04/77	<b>Elevation:</b>	600 metres
<b>Map Ref.:</b>	Sheet No. : 8727 1:100000	<b>Rainfall:</b>	640
<b>Northing/Long.:</b>	149.1975	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-35.2780555555556	<b>Drainage:</b>	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>	225 degrees

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

**Erosion:**

**Soil Classification**

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

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.1 m	Brown (7.5YR4/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; Field pH 5.7 (pH meter); Clear change to -
A2	0.1 - 0.2 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 5.9 (pH meter); Gradual change to -
A2	0.2 - 0.3 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6 (pH meter); Clear change to -
B	0.3 - 0.4 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.4 (pH meter); Gradual change to -
B	0.4 - 0.5 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Dry; Weak consistence; Field pH 6.5 (pH meter); Gradual change to -
B	0.5 - 0.6 m	Red (2.5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Dry; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 6.4 (pH meter); Clear change to -
BC	0.6 - 0.7 m	Red (2.5YR4/6-Moist); ; 10YR56, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Dry; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 6.5 (pH meter); Clear change to -
BC	0.7 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 6.7 (pH meter); Gradual change to -
BC	0.8 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 6.9 (pH meter); Clear change to -

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C	0.9 - 1.05 m	Yellowish brown (10YR5/6-Moist); , 2.5YR52, 20-50% ; , 2.5YR46, 20-50% ; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 7.2 (pH meter); Abrupt change to -
C	1.1 - 1.3 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR56, 20-50% ; , 10YR42, 20-50% ; Medium clay; Massive grade of structure; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.2 (pH meter); Abrupt change to -
C	1.3 - 1.38 m	Dark red (2.5YR3/6-Moist); , 2.5Y62, 20-50% ; , 2.5YR56, 20-50% ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.4 (pH meter); Abrupt change to -
C	1.4 - 1.5 m	Light brownish grey (2.5Y6/2-Moist); , 2.5YR36, 2-10% ; , 7.5YR56, 2-10% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8 (pH meter); Gradual change to -
C	1.5 - 1.68 m	Light brownish grey (2.5Y6/2-Moist); , 2.5YR36, 2-10% ; , 7.5YR56, 2-10% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.2 (pH meter); Abrupt change to -
C	1.68 - 1.75 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR56, 20-50% ; , 2.5YR36, 20-50% ; Loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.3 (pH meter); Abrupt change to -
C	1.75 - 1.85 m	Grey (5Y6/1-Moist); , 7.5YR56, 2-10% ; , 2.5YR36, 2-10% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.4 (pH meter); Clear change to -
C	1.85 - 2 m	Light grey (5Y7/2-Moist); , 10YR58, 2-10% ; , 2.5YR36, 2-10% ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.5 (pH meter);

#### **Morphological Notes**

#### **Observation Notes**

ALLUVIUM LUSTROUS FACES 30-100CM

#### **Site Notes**

MAJURA LANE

**Observation ID: 1**

**Laboratory Test Results:**

Depth  m	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na			Acidity
							(+)/kg		
0 - 0.1	5.7A	0.04A	2.2K	0.71	0.52	0	4.6B	8.1J	0.00
0.1 - 0.2	5.9A	<0.04A							
0.2 - 0.3	6A	<0.04A	0.78K	0.37	0.19	0	1.7B	3J	0.00
0.3 - 0.4	6.4A	<0.04A	2.8K	2.3	0.43	0	4.9B	10.5J	0.00
0.4 - 0.5	6.5A	<0.04A							
0.5 - 0.6	6.4A	<0.04A	3.5K	4.1	0.5	0.2	7.1B	15.4J	1.30
0.6 - 0.7	6.5A	<0.04A							
0.7 - 0.8	6.7A	<0.04A	5.9K	6.9	0.58	0.89	10.7B	25J	3.56
0.8 - 0.9	6.9A	<0.04A							
0.9 - 1.05	7.2A	<0.04A	6.4K	8.1	0.39	1.2	7.1B	23.3J	5.15
1.1 - 1.3	7.2A	0.08A	7.3K	9.9	0.28	1.3	3.8B	22.6J	5.75
1.3 - 1.38	7.4A	0.07A	3.9K	4.9	0.15	0.82	0.6B	10.4J	7.88
1.4 - 1.5	8A	0.05A	6K	7.4	0.16	1.1	1.4B	16J	6.88
1.5 - 1.68	8.2A	0.06A							
1.68 - 1.75	8.3A	0.06A							
1.75 - 1.85	8.4A	0.06A							
1.85 - 2	8.5A	0.06A							

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0.7 - 0.8  
0.8 - 0.9  
0.9 - 1.05  
1.1 - 1.3  
1.3 - 1.38  
1.4 - 1.5  
1.5 - 1.68  
1.68 - 1.75  
1.75 - 1.85  
1.85 - 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