

**Project Name:** Lakes District, S.A.  
**Project Code:** LD1 **Site ID:** A410 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	C.J. de Mooy	<b>Locality:</b>	
<b>Date Desc.:</b>	//	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : SI54-13	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	139.063888888889	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-35.3761111111111	<b>Drainage:</b>	No Data

**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>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Calcic Mesonatric Black Sodosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Analytical data are incomplete but reasonable confidence.			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Clay loam; Moderate grade of structure, Angular blocky; Slightly plastic; Diffuse change to -
0.04 - 0.17 m	Dusky red (2.5YR3/1-Moist); Black (5Y2/1-Dry); ; Medium clay; Strong grade of structure, 100-200 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Very plastic; Very sticky; Diffuse change to -
0.17 - 0.3 m	Black (5Y2/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Very plastic; Very sticky; Diffuse change to -
0.3 - 0.48 m	Black (5Y2/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Very plastic; Very sticky; Very few (0 - 2 %), Calcareous, , Soft segregations; Sharp change to -
0.48 - 0.68 m	Yellowish red (5YR4/6-Moist); , 7.5YR42; Fine sandy medium clay; , Angular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Concretions;
0.96 - 1.09 m	Brown (7.5YR5/4-Moist); , 7.5YR42; Fine sandy medium clay; Common (10 - 20 %), Calcareous, , Concretions;
1.34 - 1.44 m	Brown (7.5YR5/4-Moist); , 7.5YR42; Medium heavy clay;

**Morphological Notes**

**Observation Notes**

**Site Notes**

FREELING

**Observation ID: 1**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.04	6.5H	0.072C							
0.04 - 0.17	7.8H	0.094C	9.3K	14.5	2.5	7.7	3.4D		
0.17 - 0.3	8.7H	0.19C							
0.3 - 0.48	9.5H	0.56C							
0.48 - 0.68	9.6H	0.54C							
0.96 - 1.09	9.4H	0.61C							
1.34 - 1.44	9.3H	0.57C							

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded