

**Project Name:** Barossa Valley II, S.A.  
**Project Code:** BA1      **Site ID:** A56      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	C.B. Wells	<b>Locality:</b>	CEREAL CROPPING: CONSIDERABLE GULLY EROSION:
<b>Date Desc.:</b>	26/05/54	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	138.932222222222	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-34.484722222223	<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>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Rolling low hills 30-90m 10-32%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<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
Vertic Calcic Red Chromosol	<b>Principal Profile Form:</b>	Dr2.33
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red-brown earth
Analytical data are incomplete but reasonable confidence.		

**Site Disturbance:**

**Vegetation:**

Tall Strata - , , . \*Species includes - Eucalyptus obliqua

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Fine sand; Very firm consistence; Sharp change to -
B	0.1 - 0.37 m	Dark red (2.5YR3/6-Moist); ; Medium clay; 10-20 mm, Angular blocky; 20-50 mm, Prismatic; Weak consistence; Clear change to -
B1	0.37 - 0.74 m	; Medium clay; 10-20 mm, Angular blocky; 20-50 mm, Prismatic; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Clear change to -
B2	0.74 - 0.81 m	; Medium clay; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions;

**Morphological Notes**

**Observation Notes**

**Site Notes**

BAROSSA LIGHT

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.1	7A	0.02C	4.2F	0.9	5.1	0.22	2.4E			
0.1 - 0.37	7.7A	0.029C	20.2F	7.1	0.56	1	3.5E			
0.37 - 0.74	8.8A	0.064C			27					
0.74 - 0.81	9.1A	0.08C			1.5					

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1				0.017F	0.058C			15	6C	73	9	10
0.1 - 0.37				0.015F	0.096C			1	1C	21	1	75
0.37 - 0.74	16A											
0.74 - 0.81	40A								3C	21	4	31

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
7_C_B	Total Nitrogen - method description not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
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