

**Project Name:** Yudnapina Station, S.A.  
**Project Code:** YS1                      **Site ID:** A208                      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	E.A. Jackson	<b>Locality:</b>	SHEEP GRAZING- BADLY EATEN OUT AREA: OCCASIONAL KOCHIA & STRONG ANNUALGROWTH
<b>Date Desc.:</b>	09/08/55	<b>Elevation:</b>	105 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	137.389722222222	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-32.0255555555556	<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>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	2 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Duric Red Kandosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
No analytical data are available but confidence is fair.			

**Site Disturbance:**

**Vegetation:**      Low Strata - , , . \*Species includes - None recorded  
                             Mid Strata - , , . \*Species includes - None recorded  
                             Tall Strata - , , . \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.27 m	Dark red (10R3/6-Moist); ; Sand; Single grain grade of structure; Diffuse change to -
0.27 - 0.51 m	Red (2.5YR4/8-Moist); ; Sandy loam; Abrupt change to -
0.51 - 0.79 m	Red (2.5YR4/6-Moist); ; Abrupt change to -
0.79 - 1.02 m	Red (2.5YR5/8-Moist); ; Loamy sand; Diffuse change to -
1.02 - 1.17 m	Red (2.5YR5/8-Moist); ; Sandy clay loam;
1.17 - 1.47 m	Red (2.5YR5/8-Moist); ; Sandy medium clay; Clear change to -
1.47 - 1.7 m	Red (2.5YR5/8-Moist); ; Sandy medium clay; Clear change to -
1.7 - 1.96 m	; Sandy medium clay; Clear change to -

**Morphological Notes**

**Observation Notes**

COATING OF FINE CARBONATE ALONG CLEAVAGE FACES  
LAYER 3- VERY  
HARD BRITTLE AGGREGATES WITH A GRITTY TEXTURE WHEN BROKEN UP. VERY COMPACT WITH A SUGGESTION  
OF WIDELY

**Site Notes**

N-W PASTORAL

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.27	8.5H	0.001C							
0.27 - 0.51	9.2H	0.091C	5.9K	3.8	1	2.5			
0.51 - 0.79	9.2H	0.33C							
0.79 - 1.02	9.1H	0.45C							
1.02 - 1.17	9.1H	0.44C							
1.17 - 1.47	9.1H	0.47C							
1.47 - 1.7	8.7H	0.59C							
1.7 - 1.96	8.3H								

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis		
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay	
0 - 0.27	0.01C			0.011F	0.016B	0.19B				63C	28	1	8
0.27 - 0.51	0.07C									48C	28	5	19
0.51 - 0.79	5.6C									56C	26	3	9
0.79 - 1.02	8C									40C	23	2	27
1.02 - 1.17	6.6C									44C	21	5	23
1.17 - 1.47	8.6C									41C	22	4	24
1.47 - 1.7	19C								1	37C	21	3	20
1.7 - 1.96	22C									36C	19	2	20

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		
m		g/g - m3/m3						mm/h	mm/h
0 - 0.27									
0.27 - 0.51									
0.51 - 0.79									
0.79 - 1.02									
1.02 - 1.17									
1.17 - 1.47									
1.47 - 1.7									
1.7 - 1.96									

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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_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
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - 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_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