

Project Name: Yudnapina Station, S.A.
Project Code: YS1 **Site ID:** A211 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	E.A. Jackson	Locality:	SITE OF INFILTRATION TRIAL NO. 2
Date Desc.:	26/08/55	Elevation:	105 metres
Map Ref.:		Rainfall:	0
Northing/Long.:	137.161666666667	Runoff:	Moderately rapid
Easting/Lat.:	-32.051388888889	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Quartzite

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	9 metres
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Regolithic Hypercalcic Calcarosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A

Analytical data are incomplete but reasonable confidence.

Site Disturbance:

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

Surface Coarse Fragments:

Profile Morphology

0 - 0.01 m	Light red (2.5YR6/6-Moist); ; Sandy loam; Abrupt change to -
0.01 - 0.17 m	Red (2.5YR5/6-Moist); ; Sandy loam; Few, fine (1-2mm) roots; Clear change to -
0.17 - 0.33 m	; Sandy clay loam; Few, fine (1-2mm) roots; Diffuse change to -
0.33 - 0.42 m	Light red (2.5YR6/6-Moist); ; Sandy medium clay; FewDiffuse change to -
0.42 - 0.69 m	Reddish yellow (5YR6/6-Moist); ; Sandy medium clay; Clear change to -
0.69 - 1.02 m	Red (2.5YR5/6-Moist); ; Sandy medium clay;
1.02 - 1.35 m	Red (2.5YR5/6-Moist); ; Medium clay;
1.78 - 1.88 m	Red (2.5YR5/6-Moist); ; Sandy medium clay;

Morphological Notes

mod. amts of gypsum crystals in compact aggregates becoming

Observation Notes

SURFACE: SOIL REMARKABLY DRY IN VIEW OF RECENT RAINS
A WATER
SHEDDING AREA: LACK OF ANNUAL COVER & SEALED SURFACE LEADING TO EXCESSIVE RUN-OFF EVIDENCED BY
WATER MARKS ON

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	Acidity		%
						cmol (+)/kg			
0 - 0.01	8.9H	0.039C							
0.01 - 0.17	9.4H	0.04C							
0.17 - 0.33	9.2H	0.29C							
0.33 - 0.42	9H	0.6C							
0.42 - 0.69	8.9H	0.77C							
0.69 - 1.02	8.8H	0.81C							
1.02 - 1.35	8.4H	1.4C							
1.78 - 1.88	8.3H								

[illegible]

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.01										
0.01 - 0.17										
0.17 - 0.33										
0.33 - 0.42										
0.42 - 0.69										
0.69 - 1.02										
1.02 - 1.35										
1.78 - 1.88										

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Laboratory Analyses Completed for this profile

17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO ₃) - 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
6Z	Organic carbon (%) - 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