Project Name: Co. Grey Rec., S.A.
Project Code: GR1 **Site ID:** A297 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	G. Blackburn	**Locality:**	
Date Desc.:	17/04/56	**Elevation:**	43 metres
Map Ref.:		**Rainfall:**	600
Northing/Long.:	140.5	**Runoff:**	Slow
Easting/Lat.:	-37.3858333333333	**Drainage:**	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Plain
Morph. Type:	Flat	**Relief:**	1 metres
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Subnatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Solodic soil

Site Disturbance: No effective disturbance. Natural

Vegetation:
Low Strata - Sedge, , . *Species includes - None recorded
Mid Strata - Shrub, , . *Species includes - Xanthorrhoea australis
Tall Strata - Tree, , . *Species includes - Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Light grey (10YR7/1-Moist); ; Sand; Loose consistence; Abundant, coarse (>5mm) roots;
0.08 - 0.23 m	Light grey (10YR7/2-Moist); ; Sand; Loose consistence; Many
0.23 - 0.38 m	Very pale brown (10YR8/4-Moist); ; Sand; Loose consistence; Common
0.38 - 0.6 m	Yellow (10YR8/6-Moist); ; Sand; Loose consistence; Few
0.6 - 0.75 m	Brownish yellow (10YR6/6-Moist); , 10YR78; Sand; Firm consistence; 2-10%, Gravel, coarse fragments;
0.75 - 0.9 m	Very pale brown (10YR7/4-Moist); ; Sand; Firm consistence; 2-10%, Gravel, coarse fragments;
0.95 - 1.05 m	Light brownish grey (10YR6/2-Moist); , 10YR66; Sandy medium clay; , Columnar; Very firm consistence;
1.05 - 1.2 m	Brown (10YR5/3-Moist); , 10YR66; , 10YR51; Sandy medium clay; Very firm consistence;
1.3 - 1.35 m	Brown (10YR5/3-Moist); , 10YR66; , 10YR51; Sandy medium clay; Very firm consistence;
1.68 - 1.78 m	Grey (5Y6/1-Moist); , 5Y76; Sandy clay loam;
1.88 - 1.9 m	Light grey (10YR7/1-Moist); , 10YR76; Sandy clay loam;

Morphological Notes

Observation Notes

Site Notes

GREY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	6H	0.015C	1.4K	0.3	0.12	0.08				
0.08 - 0.23	5.6H	0.013C								
0.23 - 0.38	5.6H	0.014C								
0.38 - 0.6	6.1H	0.014C								
0.6 - 0.75	5.9H	0.012C								
0.75 - 0.9	6.1H	0.014C								
0.95 - 1.05	6.1H	0.049C	4.4K	2.6	0.31	0.67				
1.05 - 1.2	6.4H	0.085C								
1.3 - 1.35	6.4H	0.12C								
1.68 - 1.78	7.3H	0.097C	6.8K	2.8	0.17	0.94				
1.88 - 1.9	8H	0.052C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08				0.003F	0.038B	0.01B			64C	32	2	1
0.08 - 0.23												
0.23 - 0.38				0.002F		0.01B						
0.38 - 0.6					0.009B							
0.6 - 0.75												
0.75 - 0.9												
0.95 - 1.05				0.004F	0.022B				43C	29	1	25
1.05 - 1.2									46C	26	1	26
1.3 - 1.35												
1.68 - 1.78									61C	10	1	27
1.88 - 1.9	0.02C								75C	8	0	17

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.08										
0.08 - 0.23										
0.23 - 0.38										
0.38 - 0.6										
0.6 - 0.75										
0.75 - 0.9										
0.95 - 1.05										
1.05 - 1.2										
1.3 - 1.35										
1.68 - 1.78										
1.88 - 1.9										

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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 recordede
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