Project Name: NST
Project Code: NST **Site ID:** P128 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By: T.R. Poutsma
Locality: 4 chains east from Gnowangerup along east west `shed' access track:
Date Desc.: 23/07/52
Elevation: No Data
Map Ref.: Sheet No. : 2529 1:100000
Rainfall: 380
Northing/Long.: 118.036944444445
Runoff: Rapid
Easting/Lat.: -34.2327777777778
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Igneous rock (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Pattern Type: Peneplain
Morph. Type: Upper-slope
Relief: No Data
Elem. Type: Plain
Slope Category: Very gently sloped
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Hypernatric Grey Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Solodic soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Shrub, 0.26-0.5m, . *Species includes - None recorded
Mid Strata - Malle shrub, 1.01-3m, Very sparse. *Species includes - None recorded
Tall Strata - Tree mallee, , Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm, angular, Quartz

Profile Morphology

A1	0 - 0.05 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; 10-20%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, , ; Field pH 6 (pH meter); Diffuse, Irregular change to -
A2	0.05 - 0.14 m	Grey (10YR6/1-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; 10-20%, Quartz, coarse fragments; Clear, Irregular change to -
B1	0.07 - 0.2 m	Pale brown (10YR6/3-Moist); , 10YR62; Sandy medium clay; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Field pH 6 (pH meter); Diffuse change to -
B2	0.2 - 0.51 m	Light olive grey (5Y6/2-Moist); , 10YR64, 2-10% ; , 2-10% ; Sandy medium clay; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Field pH 6.5 (pH meter); Diffuse change to -
B3	0.51 - 0.96 m	Light grey (5Y7/1-Moist); , 10YR56, 2-10% ; , 2-10% ; Sandy medium clay; Weak consistence; 2-10%, Gravel, coarse fragments; Field pH 7 (pH meter); Diffuse, Irregular change to -
C	0.96 - 2.06 m	White (5Y8/1-Moist); , 2.5Y64; , 10YR54; Heavy clay; 0-2%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

96-206CM TALCY GRITTY CLAY WITH VERY W'D ACID ROCK - BECOMING WHITER + FINER GRAINED WITH DEPTH:

Site Notes

PLANTAGENET LD

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.6A	0.045A	2K	1.2	0.26	0.17			3.6B	
0.05 - 0.14	6.4A	0.042A								
0.07 - 0.2	6.5A	0.17A	2.5K	5.1	0.17	1.26			9B	
0.2 - 0.51	7.3A	0.536A	1.1K	5.1	0.43				11.6B	
0.51 - 0.96	7.3A	0.952A	1.1K	5.1	0.43	4.93			11.6B	
0.96 - 2.06	6.3A	1.82A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05												
0.05 - 0.14												
0.07 - 0.2												
0.2 - 0.51												
0.51 - 0.96												
0.96 - 2.06												

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 - 0.05									
0.05 - 0.14									
0.07 - 0.2									
0.2 - 0.51									
0.51 - 0.96									
0.96 - 2.06									

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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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour