Project Name: **Eyre Peninsula Soil Survey**
Project Code: **EP** **Site ID:** **A1228** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: Malcolm J. Wright
Date Desc.: 20/10/83
Map Ref.: 1:100000
Northing/Long.: 134.56666667
Easting/Lat.: -33.05
Locality: North of Witera silos, Venus district.
Elevation: No Data
Rainfall: No Data
Runoff: Rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: Almost certain or certain
Substrate Material: Soil pit, Granite

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr2.23
Great Soil Group: Red-brown earth

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.12 m	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/4-Dry); ; Sandy loam; Massive grade of structure; Single grain grade of structure; Very weak consistence; 10-20%, medium gravelly, 6-20mm, Ironstone, coarse fragments; , fine (1-2mm) roots; Clear change to -
A2	0.12 - 0.3 m	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/4-Dry); ; Sandy loam; Massive grade of structure; Single grain grade of structure; Weak consistence; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; , fine (1-2mm) roots; Clear change to -
A2	0.3 - 0.45 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR5/6-Dry); ; Sandy loam; Massive grade of structure; Single grain grade of structure; Weak consistence; 10-20%, medium gravelly, 6-20mm, Ironstone, coarse fragments; , fine (1-2mm) roots; Sharp change to -
B1	0.45 - 0.6 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Light clay; Massive grade of structure; Weak grade of structure, Angular blocky; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Few, fine (1-2mm) roots; Clear change to -
B2	0.6 - 0.75 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Medium clay (Light); Weak grade of structure, Angular blocky; Moderate grade of structure, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Few, fine (1-2mm) roots;
B2	0.75 - 0.92 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Medium clay (Light); Weak grade of structure, Angular blocky; Moderate grade of structure, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Few, fine (1-2mm) roots;

Morphological Notes

A1	Texture is a gravelly SL.
A2	Texture is a gravelly SL.
A2	Texture is a gravelly SL.
B1	B horizons consistence is very sticky when wet.

Observation Notes

Vegetation is cleared. Soil Family: Unit 11 (Haye). Parent material: granite below profile. Field PPF = Ks-Dr2.23

Site Notes

Landform: near crest of low rise.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.12	7.5A	0.15A	6.8K	0.88	0.68	0.18		11J	8.5D	1.64
0.12 - 0.3	7.7A	0.09A								
0.3 - 0.45	7.9A	0.11A	4.5K	1	0.44	0.18		7.5J	6.2D	2.40
0.45 - 0.6	7.7A	0.14A	8.7K	4.2	0.96	0.81		20J	15D	4.05
0.6 - 0.75	7.5A	0.1A	10K	4.5	1.2	1.1		22J	17D	5.00
0.75 - 0.92	7.5A	0.15A	9.7K	3.7	1.1	1.2		25J	16D	4.80

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 - 0.12		5.01A	12E		0.09A				42D	35	8	9
0.12 - 0.3		4.53A							48D	31	5	11
0.3 - 0.45	<0.1B	1.39A							38D	42	6	13
0.45 - 0.6		1.14A							16D	24	7	47
0.6 - 0.75		0.68A							9D	17	12	55
0.75 - 0.92		0.26A							9D	22	15	45

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 - 0.12									
0.12 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.75									
0.75 - 0.92									

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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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_BASES	Sum of Bases
18B2	Sulfuric acid (10%)- extractable potassium
19B1	Carbonates - manometric
2_LOI	Loss on Ignition (%)
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
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9B2	Bicarbonate-extractable phosphorus - automated colour
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance