Project Name: Eyre Peninsula Soil Survey
Project Code: EP **Site ID:** A1230 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Malcolm J. Wright	**Locality:**	Just West of Chandada, Inkster district.
Date Desc.:	21/10/83	**Elevation:**	No Data
Map Ref.:	1:100000	**Rainfall:**	No Data
Northing/Long.:	134.63333333	**Runoff:**	Rapid
Easting/Lat.:	-32.76666667	**Drainage:**	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Crest	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**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: Uc1.13
Great Soil Group: Calcareous sand

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark brown (7.5YR3/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy fine sand; Massive grade of structure; Single grain grade of structure; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Many, fine (1-2mm) roots; Common, medium (2-5mm) roots;
0.1 - 0.2 m	Dark brown (7.5YR3/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy fine sand; Massive grade of structure; Single grain grade of structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Many, fine (1-2mm) roots; Many, medium (2-5mm) roots;
0.2 - 0.3 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy fine sand; Massive grade of structure; Single grain grade of structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; , fine (1-
0.3 - 0.4 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy fine sand; Massive grade of structure; Single grain grade of structure; Weak consistence; 2-10%, rounded, Other, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Common, fine (1-2mm) roots; Common, coarse (>5mm) roots;
0.4 - 0.6 m	Brown (7.5YR4/4-Moist); Pink (7.5YR7/4-Moist); ; Loamy fine sand; Massive grade of structure; Very weak consistence; 2-10%, rounded, Other, coarse fragments; Very many (50 - 100 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; , coarse (>5mm) roots;
0.6 - 0.8 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Loamy fine sand; Massive grade of structure; Weak grade of structure, Platy; Weak consistence; 2-10%, rounded, Other, coarse fragments; Very many (50 - 100 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;
0.8 - 1 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Loamy fine sand; Massive grade of structure; Weak grade of structure, Platy; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Very many (50 - 100 %), Calcareous, , Concretions;

Morphological Notes

Coarse Fraction's are dark semi-hard rounded organic nodules, perhaps faecal pellets.
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Carbonate conretions mostly firm to slightly hard.

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Coarse Fraction's are dark semi-hard rounded organic nodules, perhaps faecal pellets.

Observation Notes

Vegetation is cleared. Parent material is Aeolian. Soil Family: Unit 13 (Kolballa). Field PPF = Uc5.12?

Site Notes

Landform: Crest of high 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 - 0.1	8.3A	0.47A	11K	1.3	1.1	0.33		14J	14D	2.36
0.1 - 0.2	8.5A	0.34A								
0.2 - 0.3	8.4A	0.59A	9.1K	2.2	1.5	0.46		13J	13D	3.54
0.3 - 0.4	8.6A	0.84A								
0.4 - 0.6	8.8A	1.62A	5.1K	3.3	0.75	2.6		13J	12D	20.00
0.6 - 0.8	8.9A	1.71A								
0.8 - 1	9.1A	1.42A	4.5K	4.4	1	2.8		8.7J	13D	32.18

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 - 0.1	52B	2.03A	33E		0.14A				6D	27	3	8
0.1 - 0.2	50B	1.88A							7D	26	3	9
0.2 - 0.3	51B	1.56A							8D	25	5	9
0.3 - 0.4	51B	1.86A							8D	24	4	10
0.4 - 0.6	59B	1.11A							7D	19	4	9
0.6 - 0.8	66B	0.76A							8D	12	4	9
0.8 - 1	64B	0.65A							11D	12	3	10

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 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.6										
0.6 - 0.8										
0.8 - 1										

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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
P10_PB1_C	Clay (%) - Plummet balance (Acid digestion pretreatment)
P10_PB1_CS	Coarse sand (%) - Plummet balance (Acid digestion pretreatment)
P10_PB1_FS	Fine sand (%) - Plummet balance (Acid digestion pretreatment)
P10_PB1_Z	Silt (%) - Plummet balance (Acid digestion pretreatment)