**Project Name: Eyre Peninsula Soil Survey** 

Site ID: Observation ID: 1 **Project Code:** EP A1231

Agency Name: **CSIRO** Division of Soils (SA)

Site Information

Desc. By: Malcolm J. Wright Locality: Palabie district, alongside Piggery.

Date Desc.: Elevation: 21/10/83 No Data Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 135.41666667 Runoff: Rapid Easting/Lat.: -33.03333333 Drainage: Well drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification: Mapping Unit: N/A Principal Profile Form: Gc1.12

ASC Confidence: **Great Soil Group:** Solonized brown

Confidence level not specified soil

Site Disturbance:

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

0 - 0.1 m Dark brown (7.5YR3/4-Moist); Brown (7.5YR5/4-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Few, fine (1-2mm) roots;

 $0.1 - 0.2 \, \text{m}$ 

Dark brown (7.5YR3/4-Moist); Brown (7.5YR5/4-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few (2 -

10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few, fine (1-2mm) roots;

Brown (7.5YR4/4-Moist); Brown (7.5YR5/4-Dry); ; Sandy loam (Light); Massive grade of 0.2 - 0.3 m

structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few (2 -

10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few, fine (1-2mm) roots;

Brown (7.5YR4/4-Moist); Brown (7.5YR5/4-Dry); ; Sandy clay; Massive grade of structure; 0.3 - 0.4 m

Weak consistence; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Soft

segregations; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Concretions; Few, fine (1-

2mm) roots; Diffuse change to -

0.4 - 0.5 m Brown (7.5YR4/4-Moist); Brown (7.5YR5/4-Dry); ; Sandy clay; Massive grade of structure;

Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Few (2 - 10 %),

Calcareous, Medium (2 -6 mm), Concretions; Few, fine (1-2mm) roots;

Brown (7.5YR4/4-Moist); Brown (7.5YR5/4-Dry); ; Sandy clay; Massive grade of structure; 0.5 - 0.63 m

Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Common (10 - 20

%), Calcareous, Coarse (6 - 20 mm), Concretions; Few, fine (1-2mm) roots;

**Morphological Notes** 

Texture is LS to light SL. Texture is LS to light SL. Texture is SC to very light SCL. Texture is SC to very light SCL. Texture is SC to very light SCL.

**Observation Notes** 

Vegetation is cleared. Soil Family is Unit 16 (Poochera).

**Site Notes** 

Landform: near crest of high.

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## **Laboratory Test Results:**

Eustratory Foot Robatto.												
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	ı	ESP
m		dS/m	9			Cmol (	•	•				%
0 - 0.1 0.1 - 0.2	8.7A 8.4A	0.2A 1.06A	10K 15K	2 5.1	0.78 1.4	0.49 1.5		15J 24J		14D 23D		3.27 3.25
0.1 - 0.2	8.6A	1.53A	6.8K	5.4	2.3	3.6		18J		18D	20.00	
0.3 - 0.4	8.9A	1.84A	4.8K	5.7	2.2	4		18J		17D	22.22	
0.4 - 0.5 0.5 - 0.63	8.9A 9A	1.69A 1.91A										
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	ıl Bulk	Bulk Pa		Size	Analysis	;
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1	9.1B	1.5A	14E		0.0	6A			34D	40	-	11
0.1 - 0.2 0.2 - 0.3	10B 13B	2.56A 1.45A							31D 30D	29 28	_	18 19
0.3 - 0.4	16B	1.03A							29D	27	4	19
0.4 - 0.5	18B 21B	0.79A 0.77A							29D 28D	28 26	4 3	18 18
0.5 - 0.63	215	0.77A							200	20	3	10
Depth	COLE											t
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3							mm/h m		mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3

0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.63

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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 - meg 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

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
P10\_PB\_CS
Coarse sand (%) - Plummet balance
P10\_PB\_FS
P10\_PB\_Z
Clay (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance

P10\_PB1\_C
P10\_PB1\_CS
Clay (%) - Plummet balance (Acid digestion pretreatment)
Coarse sand (%) - Plummet balance (Acid digestion pretreatment)
P10\_PB1\_FS
P10\_PB1\_Z
Clay (%) - Plummet balance (Acid digestion pretreatment)
Fine sand (%) - Plummet balance (Acid digestion pretreatment)
Silt (%) - Plummet balance (Acid digestion pretreatment)