Project Name: **Eyre Peninsula Soil Survey**
Project Code: **EP** **Site ID:** **A1201** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: Malcolm J. Wright
Date Desc.: 13/04/83
Map Ref.: 1:100000
Northing/Long.: 134.63333334
Easting/Lat.: -32.83333333
Locality: Whichelby road, Inkster district.
Elevation: No Data
Rainfall: No Data
Runoff: Slow
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Flat
Elem. Type: Swale
Slope: %
Pattern Type: Plain
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: Gc1.11
Great Soil Group: Solonized brown soil

Site Disturbance:

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Clay loam (Light); Massive grade of structure; Weak grade of structure, Subangular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
0.1 - 0.2 m	Dark brown (7.5YR3/2-Moist); ; Clay loam (Light); Massive grade of structure; Weak grade of structure, Angular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Common (10 - 20 %), Calcareous, , Concretions; Clear change to -
0.2 - 0.3 m	Strong brown (7.5YR5/6-Moist); ; Clay loam; Massive grade of structure; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;
0.3 - 0.4 m	Strong brown (7.5YR5/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;
0.4 - 0.5 m	Strong brown (7.5YR5/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;
0.5 - 0.6 m	Strong brown (7.5YR5/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;
0.6 - 0.7 m	Strong brown (7.5YR5/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous, , Concretions;
0.7 - 0.85 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous,

Morphological Notes

Consistence: soft apart from the earthy carbonates. All carbonate concretions are soft and earthy.

Observation Notes

Vegetation: Open woodland, mainly eucalypts.

Project Name: **Eyre Peninsula Soil Survey**
Project Code: **EP** **Site ID:** **A1201** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Notes

Landform: Swale/flat on undulating calcreted plain. External drainage: slow/restricted. Internal drainage: free.

Project Name: Eyre Peninsula Soil Survey
Project Code: EP **Site ID:** A1201 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

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 - 10	8.4A	0.25A	27K	4.6	3.9	0.57		38J	36D	1.50
10 - 20	8.2A	0.54A	21K	4.9	3.3	0.78		33J	30D	2.36
20 - 30	8.1A	0.58A	18K	4.2	2.3	0.66		26J	25D	2.54
30 - 40	8.3A	0.46A	16K	3.7	1.9	0.69		24J	22D	2.88
40 - 50	8.2A	0.54A	14K	3.5	1.4	0.77		20J	19D	3.85
50 - 60	8.3A	0.43A	12K	3.4	1.2	0.89		18J	17D	4.94
60 - 70	8.4A	0.4A	11K	3.6	1.3	1.1		19J	17D	5.79
70 - 85	8.6A	0.33A	11K	4	1.4	1.3		18J	17D	7.22

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 - 10	7.7B	2.95A	17E		0.24A				9D	27	9	39
10 - 20	22B	1.89A							7D	21	8	36
20 - 30	34B	1.48A							5D	18	6	33
30 - 40	42B	1.34A			1.6A				4D	14	5	29
40 - 50	48B	1.03A							4D	13	4	27
50 - 60	51B	0.86A			1.4A				4D	13	2	26
60 - 70	50B	0.62A							4D	14	4	26
70 - 85	47B	0.48A			1.4A				5D	15	5	26

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 - 10										
10 - 20										
20 - 30										
30 - 40										
40 - 50										
50 - 60										
60 - 70										
70 - 85										

Project Name: **Eyre Peninsula Soil Survey**
Project Code: **EP** **Site ID:** **A1201** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Laboratory Analyses Completed for this profile

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)