

**Project Name:** Eyre Peninsula Soil Survey  
**Project Code:** EP **Site ID:** A1227 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b> Malcolm J. Wright	<b>Locality:</b> South of Witera silos, Venus district.
<b>Date Desc.:</b> 20/10/83	<b>Elevation:</b> No Data
<b>Map Ref.:</b> 1:100000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 134.6	<b>Runoff:</b> Rapid
<b>Easting/Lat.:</b> -33.11666667	<b>Drainage:</b> Well drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> Dune	<b>Slope Category:</b> No Data
<b>Slope:</b> %	<b>Aspect:</b> No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Dy
	<b>Great Soil Group:</b> N/A

#### Site Disturbance:

#### Vegetation:

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

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.1 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Loose consistence;
A2	0.1 - 0.3 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Loose consistence;
A2	0.3 - 0.45 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Loose consistence;
A2	0.45 - 0.55 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR8/3-Dry); ; Sand; Single grain grade of structure; Loose consistence;
A3	0.55 - 0.7 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR8/4-Dry); ; Sand; Single grain grade of structure; Loose consistence;
A3	0.7 - 0.88 m	Brownish yellow (10YR6/6-Moist); Very pale brown (10YR7/4-Dry); ; Sand; Single grain grade of structure; Loose consistence;
B1	0.88 - 1.03 m	Strong brown (7.5YR5/7-Moist); Reddish yellow (7.5YR6/8-Dry); ; Sandy clay loam (Light); Moderate grade of structure, Columnar; Massive grade of structure; Strong consistence;
B2	1.03 - 1.2 m	Strong brown (7.5YR5/7-Moist); Reddish yellow (7.5YR6/8-Dry); ; Sandy clay (Heavy); Massive grade of structure; Weak grade of structure, Platy; Strong consistence;
	1.2 - 1.4 m	Strong brown (7.5YR5/8-Moist); Yellowish red (5YR5/8-Moist); ; Heavy clay; Massive grade of structure; Strong consistence;
	1.4 - 1.6 m	Strong brown (7.5YR5/8-Moist); Yellowish red (5YR5/8-Moist); ; Heavy clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions;
	1.6 - 1.8 m	Strong brown (7.5YR5/8-Moist); Yellowish red (5YR5/8-Moist); ; Heavy clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions;

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1.8 - 2 m	Strong brown (7.5YR5/8-Moist); Yellowish red (5YR5/8-Moist); ; Heavy clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions;
2 - 2.25 m	Strong brown (7.5YR5/8-Moist); Yellowish red (5YR5/8-Moist); ; Heavy clay; Massive grade of structure; Strong consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;

**Morphological Notes**

A1	A horizon consistence is non-coherent. Some coarse sand grains (light yellow brown). Slightly water repellent some light yellow brown grains
A2	Some coarse sand grains. Slightly water repellent some light yellow brown grains
A2	Some coarse sand grains. Slightly water repellent some light yellow brown grains
A2	Questionable A2/A3 horizon. Some coarse sand grains. Slightly water repellent some light yellow brown grains
A3	Some coarse sand grains. Slightly water repellent some light yellow brown grains
A3	Some B1 - upper domes included in sample.
B1	Bleached sand on domes. Structure = domed, otherwise massive.
B2	Structure = massive to weak platy, some sandy lenses.
	Many root channels. Texture for samples 9 to 13 is clay with some sand (washed through from upper horizons). Texture is sticky when wet.
	Many root channels. Carbonates mostly in small pockets and channels. Texture is sticky when wet.
	Many root channels. Carbonates mostly in small pockets and channels. Texture is sticky when wet.
	Root channels ? infilled with carbonate. Carbonates mostly in small pockets and channels. Texture is sticky when wet.
	Carbonates mostly in pockets and small channels. Manganese stains at interface of carbonate and clay. Root channels ? infilled with carbonate. Texture is sticky when

**Observation Notes**

PPF: Dy 74.43. Soil Family: Unit 41 (Addison). Vegetation: Cleared, mallee/broombush regrowth.

**Site Notes**

Landform: Broad dune.	Drainage: (internal) Free/impeded at top of B.
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Laboratory Analyses Completed for this profile