

**Project Name:** Southern Murray Basin  
**Project Code:** SMB **Site ID:** A960 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

|                        |              |                   |                     |
|------------------------|--------------|-------------------|---------------------|
| <b>Desc. By:</b>       | G. Blackburn | <b>Locality:</b>  |                     |
| <b>Date Desc.:</b>     | 25/08/65     | <b>Elevation:</b> | 49 metres           |
| <b>Map Ref.:</b>       |              | <b>Rainfall:</b>  | 330                 |
| <b>Northing/Long.:</b> | 141.95       | <b>Runoff:</b>    | Moderately rapid    |
| <b>Easting/Lat.:</b>   | -35.4        | <b>Drainage:</b>  | Imperfectly drained |

**Geology**

|                      |         |                                    |         |
|----------------------|---------|------------------------------------|---------|
| <b>ExposureType:</b> | No Data | <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> | Rolling low hills 30-90m 10- | <b>Pattern Type:</b>   | Low hills |
| <b>Morph. Type:</b>     | Closed Depression            | <b>Relief:</b>         | 46 metres |
| <b>Elem. Type:</b>      | Lagoon                       | <b>Slope Category:</b> | No Data   |
| <b>Slope:</b>           | 0 %                          | <b>Aspect:</b>         | No Data   |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|  |  |                                |     |
|--|--|--------------------------------|-----|
| <b>Australian Soil Classification:</b> |  | <b>Mapping Unit:</b>           | N/A |
| Hyperbasal Regolith Calcic Calcarosol  |  | <b>Principal Profile Form:</b> | N/A |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | N/A |

No analytical data are available but confidence is fair.

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - None recorded

**Surface Coarse Fragments:**

**Profile Morphology**

|               |  |
|---------------|--|
| 0 - 0.05 m    | ; Silty loam; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;                               |
| 0.05 - 0.15 m | ; Silty loam; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;        |
| 0.15 - 0.2 m  | ; Silty loam; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;                               |
| 0.21 - 0.38 m | ; Silty loam; Few (2 - 10 %), Calcareous, , Soft segregations;   |
| 0.38 - 0.58 m | ; Silty loam; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Gypseous, , ; |
| 0.58 - 0.8 m  | ; Silty loam; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Gypseous, , ;                   |
| 0.85 - 1.13 m | ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;                         |
| 1.13 - 1.31 m | ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;                         |
| 1.31 - 1.61 m | ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;                         |
| 1.61 - 1.76 m | ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;                         |
| 1.8 - 2 m     | ; Medium clay; Common (10 - 20 %), Gypseous, , Crystals;   |
| 2 - 2.15 m    | ; Medium clay; Common (10 - 20 %), Gypseous, , Crystals; Abundant, fine (1-2mm) roots;                         |
| 2.15 - 2.55 m | ; Medium clay; Common (10 - 20 %), Gypseous, , Crystals;   |
| 2.55 - 2.75 m | ; Medium clay;   |

**Morphological Notes**

**Observation Notes**

21-58CM WHITE FLECKS POSSIBLY GYPSUM:

**Site Notes**

WEEAH

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

|           |  |
|-----------|--|
| 19B_NR    | Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded            |
| 2_LOI     | Loss on Ignition (%)   |
| 2A1       | Air-dry moisture content   |
| 3A_TSS    | Electrical conductivity or soluble salts - Total soluble salts % |
| 4_NR      | pH of soil - Not recorded  |
| 5_NR      | Water soluble Chloride - Cl(%) - Not recorded                    |
| 7_NR      | Total nitrogen (%) - Not recorded                                |
| P10_NR_C  | Clay (%) - Not recorded  |
| P10_NR_CS | Coarse sand (%) - Not recorded                                   |
| P10_NR_FS | Fine sand (%) - Not recorded                                     |
| P10_NR_Z  | Silt (%) - Not recorded  |