

Project: Organic Soils Mapping

Site Id: OSM030

Site Information

Easting: 427474
Northing: 5342154
Describer: R Moreton
Date: 20-February-2019

Runoff: Slow
Permeability: Slowly permeable
Drainage: Very poorly drained
Observation Type: Hand Auger boring

Depth to Watertable (m): No free water
Depth to Substrate (m): 1.30
Surface Coarse Fragments: Very few (<2%), Very strong, Subrounded, Dolerite, Boulders (600mm-2m)

Landform Information

Landform Element (20m radius)

Element Slope Class: Very gently inclined (1-3%)
Element Morph. Type: No Data
Element Type: Plain
Slope: 3 %
Inundation Frequency: No Data
Rainfall: 2169 mm
Erosion: No Data

Landform Pattern (300m radius)


Pattern Type: Plain
Pattern Slope Class: Gently inclined (3-10%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 240 degrees
Elevation: 848 m
Mapped Geology: 250k Geology: Pleistocene glacial and glaciogene deposits.

Soil Classification

Australian Soil Classification: Peaty, Kurosolic, Redoxic, **Hydrosol**
ASC Family Criteria: Moderately thick, non-gravelly, peaty organic horizon, clayey B horizon, deep soil depth, non-water repellent surface soil
ASC Confidence: Necessary analytical and/or morphological data are incomplete but are sufficient to classify the soil with a reasonable degree of confidence.
ASC Version: 3rd Edition

Morphological Description

Horizon	Depth	Description
O1	20 - 0 cm	Black (10YR 2/1) moist, fibric litter; no mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; common medium (2-5mm) roots.
P2	0 - 18 cm	Black (10YR 2/1) moist, sapric peat; weak, 5-10 mm, weak subangular blocky structure; no mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; common medium (2-5mm) roots. EC 0.1 dS/m; pH 3.97.
2B1	18 - 35 cm	Very dark grey (10YR 3/1) moist, clay loam; massive structure; common (10-20%), medium (5-15mm), distinct yellowish brown (10YR 5/8) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few fine (1-2mm) roots; very few (<2%), very strong, angular, dispersed quartz fine gravel (2-6mm). EC 0.07 dS/m; pH 4.15.
2B2	35 - 65 cm	Dark yellowish brown (10YR 4/4) moist, light medium clay; massive structure; common (10-20%), coarse (15-30mm), distinct yellowish brown (10YR 5/6) mottles; few fine (1-2mm) roots; very few (<2%), very strong, angular, dispersed quartz medium gravel (6-20mm). EC 0.02 dS/m; pH 5.42.
2B3	65 - 110 cm	Yellowish brown (10YR 5/4) moist, light medium clay; massive structure; few (2-10%), coarse (15-30mm), distinct dark yellowish brown (10YR 4/6) mottles.
R	110 - 111 cm	



Morphological Notes: Nil.

Vegetation Notes:

TASVEG code: MBE - Eastern buttongrass moorland.

Vegetation description: *Gymnoschoenus sphaerocephalus*, *Astelia alpina*, *Baloskion australe*

Site Notes:

Location: Cuvier Valley, Lake St Clair

Site and Observation Notes: Low Buttongrass plain



Lack of overtopping shrubs, and the confinement of the buttongrass to the poorly drained flats makes this an MBE vegetation unit.

