

Project: Organic Soils Mapping

Site Id: OSM024

Site Information

Easting: 431349
Northing: 5330584
Describer: R Moreton
Date: 31-January-2019

Runoff: Very slow
Permeability: Slowly permeable
Drainage: Poorly drained
Observation Type: Hand Auger boring

Depth to Watertable (m): No free water
Depth to Substrate (m): 0.53
Surface Coarse Fragments: No coarse fragments

Landform Information

Landform Element (20m radius)

Element Slope Class: Very gently inclined (1-3%)
Element Morph. Type: No Data
Element Type: Plain
Slope: 1 %
Inundation Frequency: No Data
Rainfall: 1870 mm
Erosion: No Data

Landform Pattern (300m radius)


Pattern Type: Plain
Pattern Slope Class: Very gently inclined (1-3%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 344 degrees
Elevation: 729 m
Mapped Geology: 250k Geology: Pleistocene glacial and glaciogene deposits.

Soil Classification

Australian Soil Classification: Modic, Acidic, Sapric, **Organosol** (Definition 2)
ASC Family Criteria: Thick uppermost organic materials, non-gravelly, hemic peat surface organic materials overlying loamy textured material, shallow soil depth
ASC Confidence: All necessary analytical and/or morphological data are available for the profile being classified
ASC Version: 3rd Edition

Morphological Description

Horizon	Depth	Description
O1	3 - 0 cm	Black (10YR 2/1) moist, fibric litter; no mottles; common very fine (<1mm) roots.
P21	0 - 12 cm	Black (10YR 2/1) moist, hemic peat; massive structure; no mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; common fine (1-2mm) roots. EC 0.21 dS/m; pH 4.07.
P22	12 - 30 cm	Black (10YR 2/1) moist, sapric peat; massive structure; few (2-10%), fine (<5mm), faint reddish brown (5YR 4/4) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few fine (1-2mm) roots. EC 0.17 dS/m; pH 4.23.
2A1	30 - 50 cm	Very dark brown (10YR 2/2) moist, sandy loam; massive structure; few (2-10%), fine (<5mm), faint reddish brown (5YR 5/4) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few fine (1-2mm) roots; few (2-10%), very strong, subangular, dispersed quartzite fine gravel (2-6mm). EC 0.1 dS/m; pH 4.96.
R	50 - 51 cm	



Morphological Notes: Nil.

Vegetation Notes:

TASVEG code: MBE - Eastern buttongrass moorland.

Vegetation description: *Gymnoschoenus sphaerocephalus*, *Sprengelia* sp.

Site Notes:

Location: Adjacent Lyell Hwy, Lake St Clair area.

Site and Observation Notes: Low Buttongrass plain with pools



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

