

# Project: Organic Soils Mapping

Site Id: OSM037

## Site Information

**Easting:** 425476  
**Northing:** 5349735  
**Describer:** R Moreton  
**Date:** 21-February-2019

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

**Depth to Watertable (m):** 0.23  
**Depth to Substrate (m):** 0.48  
**Surface Coarse Fragments:** No coarse fragments

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Level (<1%)  
**Element Morph. Type:** No Data  
**Element Type:** Drainage depression  
**Slope:** 0 %  
**Inundation Frequency:** No Data  
**Rainfall:** 2170 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)


**Pattern Type:** Alluvial plain  
**Pattern Slope Class:** Very gently inclined (1-3%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 344 degrees  
**Elevation:** 750 m  
**Mapped Geology:** 250k Geology: Pleistocene glacial and glaciogene deposits.

## Soil Classification

**Australian Soil Classification:** Mesotrophic, Chromosolic, Redoxic, **Hydrosol**  
**ASC Family Criteria:** Moderately thick, non-gravelly, peaty organic horizon, clayey B horizon, shallow soil depth, non-water repellent surface soil  
**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	5 - 0 cm	Black (7.5YR 2.5/1) moist, fibric litter; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common fine (1-2mm) roots. EC 0.45 dS/m; pH 4.80.
P2	0 - 18 cm	Black (10YR 2/1) moist, sapric peat; weak, 2-5 mm, weak polyhedral structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few fine (1-2mm) roots. EC 0.11 dS/m; pH 4.90.
2B2	18 - 43 cm	Dark yellowish brown (10YR 3/4) moist, light clay; massive structure; few (2-10%), fine (<5mm), faint very dark greyish brown (10YR 3/2) mottles; few fine (1-2mm) roots; few (2-10%), very strong, rounded, dispersed dolerite medium gravel (6-20mm). EC 0.03 dS/m; pH 5.82.
C/R	43 - 44 cm	



## Morphological Notes:

2B2: Water table perched on this horizon

## Vegetation Notes:

**TASVEG code:** MBE - Eastern buttongrass moorland.

**Vegetation description:** *Gymnoschoenus sphaerocephalus*, *Gleichenia alpina*, *Baeckea gunniana*

## Site Notes:

**Location:** Overland Track, Lake St Clair

**Site and Observation Notes:** Drainage depression



Site OSM037 is located within the foreground – The lack of a sufficient number of overtopping shrubs and the confinement of the buttongrass to the poorly drained flats, makes this an MBE vegetation unit.

