

Project: Organic Soils Mapping

Site Id: OSM027

Site Information

Easting: 432290
Northing: 5336840
Describer: R Moreton
Date: 01-February-2019

Runoff: Slow
Permeability: Moderately permeable
Drainage: Imperfectly drained
Observation Type: Hand Auger boring

Depth to Watertable (m): No free water
Depth to Substrate (m): 0.20
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: 1790 mm
Erosion: No Data

Landform Pattern (300m radius)


Pattern Type: Terrace (alluvial)
Pattern Slope Class: Gently inclined (3-10%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 82 degrees
Elevation: 746 m
Mapped Geology: 250k Geology: Pleistocene glacial and glaciogene deposits.

Soil Classification

Australian Soil Classification: Rudaceous, Acidic, Sapric, **Organosol** (Definition 2)
ASC Family Criteria: Ashy, thick uppermost organic materials, non-gravelly surface horizon, loamy peat surface organic materials, organics directly overlying stones, 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	12 - 0 cm	Fibric litter; no mottles; common (1-5 per 100mm ²), fine (1-2mm) macropores; abundant fine (1-2mm) roots.
P21	0 - 10 cm	Very dark brown (7.5YR 2.5/2) moist, loamy peat; moderate, 2-5 mm, polyhedral structure; no mottles; common (1-5 per 100mm ²), very fine (0.075-1mm) macropores; many very fine (<1mm) roots. EC 0.3 dS/m; pH 4.79.
P22	10 - 20 cm	Black (10YR 2/1) moist, sandy peat; moderate, 2-5 mm, polyhedral structure; no mottles; common (1-5 per 100mm ²), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.1 dS/m; pH 5.02.
C	20 - 21 cm	Massive structure; no mottles; common (10-20%), very strong, subrounded, stratified dolerite coarse gravel (20-60mm).



Morphological Notes

Horizon: O1
P22

Description: Forest Litter only.
Burnt Peat (Fusic/Ashy)

Vegetation Notes:

TASVEG code: SLL - *Leptospermum lanigerum* scrub.

Vegetation description: Tea tree/Melaleuca, *Banksia Marginata*, Dry Eucalypt, *Ghania*

Site Notes:

Location: Thule Baffin wetlands, Lake St Clair Road

Site and Observation Notes: Melaleuca forest, drainage depression



Melaleuca virens and *Leptospermum lanigerum* are common scrub species in drainage lines.

