Project: Organic Soils Mapping **Site Id:** OSM009

Site Information

Easting: 443006
Northing: 5387676
Describer: R Moreton
Date: 22-October-2018

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

Depth to Watertable (m): 0.40
Depth to Substrate (m): Not reached
Surface Coarse Fragments: No coarse fragments

Landform Information

Landform Element (20m radius)
Element Slope Class: Level (<1%)
Element Morph. Type: No Data
Element Type: Swamp
Slope: 0 %
Inundation Frequency: No Data
Rainfall: 1881 mm
Erosion: No Data

Landform Pattern (300m radius)
Pattern Type: Hills
Pattern Slope Class: Steep (32-56%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 80 degrees
Elevation: 1139 m
Mapped Geology: 250k Geology: Glacial, periglacial and fluvioglacial sediments including till and interglacial deposits.

Soil Classification

Australian Soil Classification: Terric, Acidic, Sapric, **Organosol** (Definition 1)
ASC Family Criteria: Very thick uppermost organic materials, non-gravelly surface horizon, hemic peat surface organic materials overlying clayey textured material, deep 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	30 - 0 cm	Dark yellowish brown (10YR 3/4) moist; fibric litter; no structure; abundant very fine (<1mm) roots. EC 0.57 dS/m; pH 5.01.
P21	0 - 12 cm	Very dark greyish brown (10YR 3/2) moist, hemic peat; weak, 2-5 mm, weak polyhedral structure; many fine (1-2mm) roots. EC 0.22 dS/m; pH 4.64.
P22	12 - 60 cm	Black (N 2.5/) moist, sapric peat; weak, 2-5 mm, weak polyhedral structure; common very fine (<1mm) roots. EC 0.06 dS/m; pH 4.75;
2B2	60 - 70 cm	Brown (10YR 4/3) moist, sandy light clay; weak, 5-10 mm, polyhedral structure; common (10-20%), medium (5-15mm), distinct, very dark greyish brown (10YR 3/2) mottles; very few (<2%), coarse (6-20mm), ferromanganiferous nodules; few (<1 per 100mm^2), very fine (0.075-1mm) macropores; few very fine (<1mm) roots; very few (<2%), weak, rounded, dispersed dolerite medium gravel (6-20mm). EC 0.01 dS/m; pH 5.17.
2B3	70 - 100 cm	Yellowish brown (10YR 5/8) moist, light clay; weak, 5-10 mm, weak polyhedral structure; common (10-20%), medium (5-15mm), distinct light brownish grey (2.5Y 6/2) mottles; very few (<2%), medium (2-6mm), ferromanganiferous nodules; few (<1 per 100mm^2), very fine (0.075-1mm) macropores; few very fine (<1mm) roots; very few (<2%), weak, rounded, dispersed dolerite medium gravel (6-20mm). EC 0.01 dS/m; pH 5.31

Morphological Notes

Horizon:	Description:
O1	Horizon includes cushion plant pedestal
2B3	Light Clay at 70cm from surface.

Vegetation Notes:

TASVEG code: HCM - Cushion moorland.
Vegetation description: Abrotanella forsteroides, Empodisma minus, Poa sp., Carpha alpina, Lepidosperma filiforme, Baloskion australe, Ranunculus sp., Pterygopappus lawrencei

Site Notes:

Location: Devil's Gullet
Site and Observation Notes: Organic Soil over dolerite. Burnt Cushion Site

Devil's Gullet burnt cushion plant site- cushions are common enough here to class as HCM rather than HSE vegetation unit.

Chip tray and (Laboratory Data arriving soon)

Depth (cm)									
30 - 0 cm									
0 - 12 cm									
12 - 60 cm									
60 - 70 cm									
70 - 100 cm									