

Project: Organic Soils Mapping

Site Id: OSM028

Site Information

Easting: 448477
Northing: 5384106
Describer: R Moreton
Date: 06-February-2019

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

Depth to Watertable (m): No free water
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: Valley flat
Slope: 0 %
Inundation Frequency: No Data
Rainfall: 1715 mm
Erosion: No Data

Landform Pattern (300m radius)

Pattern Type: Low hills
Pattern Slope Class: Moderately inclined (10-32%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 356 degrees
Elevation: 1203 m
Mapped Geology: 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

Soil Classification

Australian Soil Classification: Lithic, Acidic, Hemic, **Organosol** (Definition 1)
ASC Family Criteria: Very thick uppermost organic materials, non-gravelly surface horizon, fibric peat surface organic materials, organics directly overlying rock, very 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	2 - 0 cm	Very dark grey (5YR 3/1) moist, fibric litter; no structure; no mottles; common (1-5 per 100mm ²), very fine (0.075-1mm) macropores; many fine (1-2mm) roots.
P1	0 - 10 cm	Very dark grey (5YR 3/1) moist, fibric peat; massive structure; no mottles; common (1-5 per 100mm ²), very fine (0.075-1mm) macropores; many fine (1-2mm) roots. EC 0.27 dS/m; pH 3.61.
P21	10 - 20 cm	Very dark grey (5YR 3/1) moist, hemic peat; massive structure; no mottles; common (1-5 per 100mm ²), fine (1-2mm) macropores; common very fine (<1mm) roots. EC 0.22 dS/m; pH 3.65.
P22	20 - 40 cm	Black (5YR 2.5/1) moist, hemic peat; massive structure; no mottles; common (1-5 per 100mm ²), fine (1-2mm) macropores; few fine (1-2mm) roots. EC 0.2 dS/m; pH 3.71.
P23	40 - 50 cm	Dark reddish brown (5YR 3/2) moist, hemic peat; massive structure; no mottles; common (1-5 per 100mm ²), fine (1-2mm) macropores; few fine (1-2mm) roots. EC 0.13 dS/m; pH 3.48.
P24	50 - 150cm	Deep peat horizon not shown in photo - Soil probe penetrated without detecting substrate to a depth 1.5m.

Morphological Notes

Horizon: P23
Description: Probe depth continued deeper than 1.5m

Vegetation Notes:

TASVEG code: ASP/RPP - Sphagnum peatland with emergent pencil pines.
Vegetation description: Sphagnum sp., Athrotaxis cupressoides

Site Notes:

Location: Blue Lake, Lake Mackenzie
Site and Observation Notes: Pencil Pines Stand - recent fire damage



Sphagnum peatland with pencil pine growing nearby- aerial imagery and NVA mapping confirms vegetation unit classification of RPP.

