

# Project: Organic Soils Mapping

Site Id: OSM017

## Site Information

**Easting:** 448434  
**Northing:** 5384043  
**Describer:** R Moreton  
**Date:** 24-October-2018

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

**Depth to Watertable (m):** 0.20  
**Depth to Substrate (m):** 1.29  
**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:** Valley flat  
**Slope:** 3 %  
**Inundation Frequency:** No Data  
**Rainfall:** 1712 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Hills  
**Pattern Slope Class:** Moderately inclined (10-32%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 120 degrees  
**Elevation:** 1208 m  
**Mapped Geology:** 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

## Soil Classification

**Australian Soil Classification:** Lithic, Acidic, Fibric, **Organosol** (Definition 1)  
**ASC Family:** Ashy, very thick uppermost organic materials, non-gravelly surface horizon, hemic peat surface organic materials, organics directly overlying rock, 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
O2	3 - 0 cm	Reddish black (10R 2.5/1) moist, hemic-sapric litter; no structure; no mottles; few (<1 per 100mm <sup>2</sup> ), macropores; many very fine (<1mm) roots.
P11	0 - 12 cm	Black (5YR 2.5/1) moist, fibric peat; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), macropores; many very fine (<1mm) roots. EC 0.56 dS/m; pH 4.42.
P12	12 - 22 cm	Dark reddish brown (5YR 3/2) moist, fibric peat; massive structure; no mottles; common very fine (<1mm) roots. EC 0.36 dS/m; pH 4.23.
P13	22 - 40 cm	Dark reddish brown (5YR 3/3) moist, fibric peat; massive structure; no mottles; common very fine (<1mm) roots. EC 0.26 dS/m; pH 3.91.
P14	40 - 63 cm	Reddish brown (5YR 4/3) moist, fibric peat; massive structure; no mottles; common fine (1-2mm) roots. EC 0.21 dS/m; pH 3.89.
P15	63 - 110 cm	Dark reddish brown (5YR 3/3) moist, fibric peat; massive structure; no mottles; few fine (1-2mm) roots. EC 0.2 dS/m; pH 3.97.
P2	110 - 125 cm	Sapric peat; massive structure. EC 0.25 dS/m; pH 4.07.
R	125 - 126 cm	Many (20-50%), very strong, subrounded, dispersed dolerite stones (200-600mm).



**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** RPP/RPW - Before the fire was *Athrotaxis cupressoides* rainforest. After the fire now *Athrotaxis cupressoides* open woodland.

**Vegetation description:** *Athrotaxis cupressoides*

**Site Notes:**


**Location:** Blue Peaks

**Site and Observation Notes:** Pencil pines



Burnt pencil pine rainforest over Sphagnum peatland. There are openings in the forest large enough to be mapped as Sphagnum peatland (ASP) despite the cover of *Richea scoparia* over the sphagnum.

# Chip tray and (Laboratory Data arriving soon)

<p>O2 Horizon</p>  <p>Rock</p>	Depth (cm)								
	3 - 0 cm								
	0 - 12 cm								
	12 - 22 cm								
	22 - 40 cm								
	40 - 63 cm								
	63 - 110 cm								
	110 - 125 cm								
125 - 126 cm									