

# Project: Organic Soils Mapping

Site Id: OSM040

## Site Information

**Easting:** 463475  
**Northing:** 5363540  
**Describer:** R Moreton  
**Date:** 20-March-2019

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

**Depth to Watertable (m):** No free water

**Depth to Substrate (m):** 0.54

**Surface Coarse Fragments:** 1. Very few (<2%), Strong, Subangular, Dolerite, Stones (200-600mm)

## 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:** 1054 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Plain  
**Pattern Slope Class:** Very gently inclined (1-3%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 190 degrees  
**Elevation:** 1141 m  
**Mapped Geology:** 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

## Soil Classification

**Australian Soil Classification:** Peaty, Kandosolic, Redoxic, **Hydrosol**

**ASC Family Criteria:** Moderately thick, non-gravelly, peaty organic horizon, clayey B horizon, moderately deep soil depth, water repellent surface soil.

**ASC Confidence:** All necessary analytical and/or morphological data are available for the profile being classified  
**ASC Version:** 3<sup>rd</sup> Edition

## Morphological Description



Horizon	Depth	Description
P11	0 - 4 cm	Dark brown (7.5YR 3/2) moist, fibric peat; no mottles; common (1-5 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; many very fine (<1mm) roots. EC 0.38 dS/m; pH 5.24.
P12	4 - 14 cm	Very dark grey (7.5YR 3/1) moist, hemic peat; weak, <2 mm, weak polyhedral structure; no mottles; common (1-5 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.28 dS/m; pH 5.08.
P2	14 - 26 cm	Black (10YR 2/1) moist, sandy 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 0.07 dS/m; pH 5.02.
2B2	26 - 39 cm	Black (7.5YR 2.5/1) moist, clay loam; weak, 5-10 mm, weak subangular blocky structure; very few (<2%), fine (<5mm), distinct dark brown (7.5YR 3/4) mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few fine (1-2mm) roots. EC 0.02 dS/m; pH 5.34.
2B3	39 - 54 cm	Brown (10YR 4/3) moist, light clay; massive structure; few (2-10%), medium (5-15mm), faint dark yellowish brown (10YR 4/6) mottles; few fine (1-2mm) roots. EC 0.01 dS/m; pH 5.58.
R	54 - 55 cm	Abundant (50-90%), strong, subangular, dispersed dolerite stones (200-600mm); abundant (50-90%), strong, subangular, dispersed basalt stones (200-600mm).

**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** HSE - Eastern alpine sedgeland.

**Vegetation description:** *Richea sprengelioides*, *Abrotanella forsteroides*, *Empodisma minus*, *Baloskion australe*, *Poa* sp.

**Site Notes:**

**Location:** Alongside of track into Double Lagoon

**Site and Observation Notes:** Sedgeland, could be basaltic geology?



Baloskion and Empodisma with poorly developed tufts of Poa, shrubs are minor and patchy - classified as HSE vegetation unit.

# Chip tray and (Laboratory Data arriving soon)



Depth (cm)									
0 - 4 cm									
4 - 14 cm									
14 - 26 cm									
26 - 39 cm									
39 - 54 cm									
54 - 55 cm									