

# Project: Organic Soils Mapping

Site Id: OSM046

## Site Information

**Easting:** 459446  
**Northing:** 5362128  
**Describer:** R Moreton  
**Date:** 22-March-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):** 0.65  
**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:** Risecrest  
**Slope:** 1 %  
**Inundation Frequency:** No Data  
**Rainfall:** 941 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:** 130 degrees  
**Elevation:** 1144 m  
**Mapped Geology:** 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

## Soil Classification

**Australian Soil Classification:** Acidic-Mottled, Dystrophic, Brown, **Kandosol**  
**ASC Family Criteria:** Thick, non-gravelly, peaty organic horizon, clayey B horizon, moderately deep soil depth  
**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
O2	2 - 0 cm	Black (5YR 2.5/1) moist hemic-sapric litter; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.15 dS/m; pH 4.74.
A11	0 - 8 cm	V. dark brown (7.5YR 2.5/2) moist sapric clay loam; weak, <2 mm, weak polyhedral structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; many very fine (<1mm) roots. EC 0.08 dS/m; pH 4.61.
A12	8 - 30 cm	Dark reddish brown (5YR 2.5/2) moist clay loam; moderate, 2-5 mm, moderate subangular blocky structure; no mottles; few (<1 per 100mm <sup>2</sup> ), fine (1-2mm) macropores; common very fine (<1mm) roots. EC 0.03 dS/m; pH 4.75.
B1	30 - 40 cm	Dark yellowish brown (10YR 4/4) moist light clay; weak, 2-5 mm, weak subangular blocky structure; common (10-20%), fine (<5mm), distinct dark yellowish brown (10YR 4/6) mottles; few very fine (<1mm) roots. EC 0.02 dS/m; pH 5.16.
B2	40 - 65 cm	Yellowish brown (10YR 5/6) moist light medium clay; massive structure; common (10-20%), medium (5-15mm), distinct dark yellowish brown (10YR 4/6) mottles. EC 0.01 dS/m; pH 5.49.
R	65 - 66 cm	Common (10-20%), very strong, subangular, dispersed dolerite cobbles (60-200mm).



**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** HHE - Eastern alpine heathland.

**Vegetation description:** *Richea acerosa*, *Poa* sp.

**Site Notes:**

**Location:** Lake Kay Road

**Site and Observation Notes:** Denser than site OSM045 and more vegetation species.



*Richea acerosa* shrubland - with grassy understorey- overgrown grassland turning into heathland- classified as HHE

