

# Project: Organic Soils Mapping

Site Id: OSM042

## Site Information

**Easting:** 464179  
**Northing:** 5364588  
**Describer:** R Moreton  
**Date:** 21-March-2019

**Runoff:** Moderately rapid  
**Permeability:** Slowly permeable  
**Drainage:** Moderately well drained  
**Observation Type:** Hand Auger boring

**Depth to Watertable (m):** No free water  
**Depth to Substrate (m):** 0.42  
**Surface Coarse Fragments:** 1. Few (2-10%), Strong, Subrounded, Dolerite, Cobbles (60-200mm)  
2. Few (2-10%), Strong, Subangular, Dolerite, Cobbles (60-200mm)

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Very gently inclined (1-3%)  
**Element Morph. Type:** No Data  
**Element Type:** Hillcrest  
**Slope:** 1 %  
**Inundation Frequency:** No Data  
**Rainfall:** 1098 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Low hills  
**Pattern Slope Class:** Gently inclined (3-10%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 95 degrees  
**Elevation:** 1154 m  
**Mapped Geology:** 250k Geology: Basalt (tholeiitic to alkalic) and related pyroclastic rocks.

## Soil Classification

**Australian Soil Classification:** Acidic, Leptic, Brown, **Kandosol**  
**ASC Family Criteria:** Thin, non-gravelly, peaty organic horizon, clayey B horizon, shallow 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
P2	0 - 4 cm	Very dark brown (7.5YR 2.5/2) moist clayey peat; weak, <2 mm, weak polyhedral structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.17 dS/m; pH 5.1.
2B1	4 - 23 cm	Dark reddish brown (5YR 3/4) moist silty clay loam; weak, <2 mm, weak polyhedral structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.02 dS/m; pH 5.31.
2B2	23 - 42 cm	Dark reddish brown (5YR 3/3) moist light clay; weak, 2-5 mm, weak polyhedral structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.02 dS/m; pH 5.32.
R	42 - 43 cm	Many (20-50%), strong, subangular, stratified dolerite cobbles (60-200mm).

**Morphological Notes:** Nil.

**Vegetation Notes:**

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

**Vegetation description:** *Richea acerosa*, *Orites acicularis*, *Poa* sp., *Empodisma minus*

**Site Notes:**

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

**Site and Observation Notes:** Crest



Dense cover of shrubs, *Richea acerosa* (HHE) - a fire would convert this to grassland.

