

## Project: Organic Soils Mapping

Site Id: OSM001

### Site Information

**Easting:** 412908  
**Northing:** 5325984  
**Describer:** R Moreton  
**Date:** 01-October-2018

**Runoff:** Rapid  
**Permeability:** Slow  
**Drainage:** Poor  
**Observation Type:** Hand Auger boring

**Depth to Watertable (m):** 0.15  
**Depth to Substrate (m):** 0.23  
**Surface Coarse Fragments:** No coarse fragments

### Landform Information

#### Landform Element (20m radius)

**Element Slope Class:** Moderately inclined (10-32%)  
**Element Morph. Type:** No Data  
**Element Type:** Hillslope  
**Slope:** 18%  
**Inundation Frequency:** No Data  
**Rainfall:** 2622mm  
**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:** 33 degrees  
**Elevation:** 490m  
**Mapped Geology:** 25k Geology: Lithologically undifferentiated rocks of low metamorphic grade including non-garnetiferous quartzite and phyllite.

### Soil Classification

**Australian Soil Class:** Acidic, Gritty-Lithic, Brown, **Tenosol**  
**ASC Family Criteria:** Moderately thick, slightly gravelly, silty surface horizons, shallow soil depth, non-water repellent surface soil  
**ASC Confidence:** No necessary analytical or limited morphological data are available - but confidence is fair  
**ASC Version:** 3<sup>rd</sup> Edition

### Morphological Description



Horizon	Depth	Description
O1	8-0 cm	Brown (7.5YR 4/2) moist, fibric litter; no structure.
A1	0- 23 cm	Brown (7.5YR 4/2) moist, sapric loamy sand; massive structure; common fine (1-2mm) roots; very few (<2%), very strong, subangular, dispersed quartz fine gravel (2-6mm).
C/R	23 – 24 cm	Massive structure; common (10-20%), very strong, subangular, dispersed quartz medium gravel (6-20mm).

**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** MBW - Buttongrass moorland with emergent shrubs.

**Vegetation description:** *Leptospermum nitidum*, *Sprengelia incarnata*, *Gymnoschoenus sphaerocephalus*, *Banksia marginata?*, *Agastachys odorata*

**Site Notes:**

**Location:** Mt Mullins

**Site and Observation Notes:** Teatree and Buttongrass slope



OSM001 sample site located in foreground - The shrubs form an even cover over the top of the sedges, so this is a good fit for this vegetation mapping unit.