

# Project: Organic Soils Mapping

Site Id: OSM029

## Site Information

**Easting:** 424175  
**Northing:** 5327665  
**Describer:** R Moreton  
**Date:** 19-February-2019

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

**Depth to Watertable (m):** No free water  
**Depth to Substrate (m):** 0.34  
**Surface Coarse Fragments:** 1. Very few (<2%), Very strong, Subrounded, Dolerite, Boulders (600mm-2m)  
2. Very few (<2%), Very strong, Subrounded, Quartzite, Boulders (600mm-2m)

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Gently inclined (3-10%)  
**Element Morph. Type:** No Data  
**Element Type:** Hillslope  
**Slope:** 10 %  
**Inundation Frequency:** No Data  
**Rainfall:** 2329 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Low hills  
**Pattern Slope Class:** Moderately inclined (10-32%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 350 degrees  
**Elevation:** 817 m  
**Mapped Geology:** 250k Geology: Pleistocene glacial and glaciogene deposits.

## Soil Classification

**Australian Soil Classification:** Modic, Acidic, Hemic, **Organosol** (Definition 2)  
**ASC Family Criteria:** Moderately thick uppermost organic materials, non-gravelly, hemic peat surface organic materials overlying clayey textured material, very 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
P21	0 - 6 cm	Black (7.5YR 2.5/1) moist, hemic peat; no mottles; few (<1 per 100mm <sup>2</sup> ), fine (1-2mm) macropores; common medium (2-5mm) roots. EC 0.25 dS/m; pH 3.99.
P22	6 - 16cm	Very dark grey (7.5YR 3/1) moist, hemic peat; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common fine (1-2mm) roots; very few (<2%), very strong, angular, dispersed quartz fine gravel (2-6mm). EC 0.11 dS/m; pH 4.03.
2B3	16 - 34 cm	Very dark grey (10YR 3/1) moist, sandy light clay; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few fine (1-2mm) roots; few (2-10%), very strong, angular, dispersed quartz fine gravel (2-6mm). EC 0.05 dS/m; pH 4.13.
C/R	34 - 35 cm	

**Morphological Notes:** Nil.

**Vegetations Notes:**

**TASVEG code:** MBW - Western Buttongrass moorland.

**Vegetation description:** *Gymnoschoenus sphaerocephalus*, *Sprengelia* sp., *Leptospermum nitidum*

**Site Notes:**

**Location:** Near Beehive Canal off Burns Dam road

**Site and Observation Notes:** Buttongrass area



Buttongrass extends upslope and forms about 75% cover resulting in MBW vegetation unit classification.

