

**Project Name:** DER  
**Project Code:** DER **Site ID:** H201 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	2.4KM north west of Dysart: on roadside 1.8M upslope from bank and .6M from fence:
<b>Date Desc.:</b>	27/05/60	<b>Elevation:</b>	344 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	630
<b>Northing/Long.:</b>	147.238333333333	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-42.5569444444445	<b>Drainage:</b>	Well drained

**Geology**

<b>Exposure Type:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Bfs	<b>Substrate Material:</b>	Sandstone

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Moderately inclined
<b>Slope:</b>	21.3 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Melanic Eutrophic Brown Kandosol		<b>Principal Profile Form:</b>	Uc5.32
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow earth
All necessary analytical data are available.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Shale, coarse fragments; Many, fine (1-2mm) roots;
A	0.1 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
A	0.25 - 0.43 m	Dark brown (7.5YR3/2-Moist); , 7.5YR55; Sandy loam; Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	0.44 - 0.53 m	Strong brown (7.5YR5/5-Moist); , 7.5YR32; Clayey sand (Light); Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments;
	0.53 - 0.63 m	Strong brown (7.5YR5/5-Moist); ; Clayey sand; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, Shale, coarse fragments;
	0.71 - 0.89 m	Strong brown (7.5YR5/5-Moist); ; Sandy clay loam (Light); Massive grade of structure; Firm consistence; Diffuse change to -
	0.89 - 1.02 m	Strong brown (7.5YR5/5-Moist); , 7.5YR54; Sandy clay loam (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; Diffuse change to -
C	1.02 - 1.09 m	;

**Morphological Notes**

C YB (10YR51) weathered feldspathic sandstone:

**Observation Notes**

WORM ACTIVITY TO 63CM: 10-43CM ODD PIECES OF CHARCOAL: 63-71CM VEIN OF FERRUGINISED ZONE (SHALEY MATERIAL):

**Site Notes**

MONMOUTH

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette