

Project Name: DER
Project Code: DER **Site ID:** H233 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	5.7KM NE of Bagdad P.O.:40M from gate along rough track then 16M on LHS of track:
Date Desc.:	04/12/61	Elevation:	442 metres
Map Ref.:		Rainfall:	620
Northing/Long.:	147.270833333333	Runoff:	Moderately rapid
Easting/Lat.:	-42.5902777777778	Drainage:	Poorly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pd	Substrate Material:	Auger boring, 0.81 m deep, Dolerite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	3.5 %	Aspect:	315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Vertic Eutrophic Brown Kurosol		Principal Profile Form:	Db1.41
ASC Confidence:		Great Soil Group:	Grey-brown podzolic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Shrub, , . *Species includes - None recorded
 Mid Strata - Tree, , . *Species includes - None recorded
 Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.02 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Fine sandy loam; Weak grade of structure, <2 mm, Granular; Dry; Loose consistence; 10-20%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Many Gradual change to -
A1A2	0.02 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); Grey (10YR6/1-Dry); ; Fine sandy loam; Weak grade of structure, <2 mm, Granular; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm); ; Common Diffuse change to -
A21	0.08 - 0.14 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/1-Dry); , 10YR42; Fine sandy loam; Massive grade of structure; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm); ; Few Diffuse change to -
A22	0.14 - 0.23 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Fine sandy loam; Massive grade of structure; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, stony, 200-600mm, Dolerite, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm); ; Clear, Wavy change to -
AB	0.2 - 0.28 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); , 10YR53; Fine sandy clay loam; Massive grade of structure; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Strong consistence; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm); ; Clear, Wavy change to -
B21	0.28 - 0.41 m	Brown (10YR4/3-Moist); , 10YR52, 2-10% ; , 2-10% ; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very strong consistence; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm); ; Gradual change to -
B22	0.41 - 0.56 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR58; Heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Fine, (0 - 5) mm crack; Moist; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, , ; Gradual change to -
BC	0.56 - 0.71 m	Greyish brown (2.5Y5/3-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments;

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C 0.71 - 0.81 m Greyish brown (2.5Y5/3-Moist); ; Heavy clay; 10-20%, coarse gravelly, 20-60mm, Dolerite, coarse fragments;

Morphological Notes

Observation Notes

2-56CM CONCENTRATION OF PISOLITIC FE IN HOLLOW:41-81CM MANY W SPECKS:71-81CM GRAVELLY C + MEALY W'D DR:

Site Notes

BRIGHTON

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[illegible]

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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