

Project Name: DER
Project Code: DER **Site ID:** H205 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	On western side of Richmond H'way:4.85KM SSW of Richmond on property "Lauderdale":4.6M from fence line:
Date Desc.:	14/12/60	Elevation:	21 metres
Map Ref.:		Rainfall:	580
Northing/Long.:	147.41111111111111	Runoff:	Moderately rapid
Easting/Lat.:	-42.7763888888889	Drainage:	Very poorly drained

Geology
ExposureType: Soil pit
Geol. Ref.: No Data

Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.4 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Vertic Eutrophic Brown Kurosol	Principal Profile Form:	Db2.41
ASC Confidence:	Great Soil Group:	Soloth

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Loamy sand; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments; CommonDiffuse change to -
A1	0.1 - 0.18 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Loamy sand; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments; CommonSharp change to -
A2sb	0.19 - 0.28 m	Dark grey (10YR4/1-Moist); Light grey (10YR7/1-Dry); ; Loamy sand; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments;
B	0.33 - 0.43 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments;
B	0.2 - 0.36 m	Very dark grey (10YR3/1-Moist); , 2.5Y43; , 10YR44; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments; Diffuse change to -
B	0.36 - 0.43 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments; Sharp change to -
	0.46 - 0.63 m	Dark greyish brown (2.5Y4/3-Moist); , 10YR44; , 10YR31; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Firm consistence; Slightly plastic; Normal plasticity; 2-10%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments; Sharp change to -
	0.66 - 0.89 m	Olive (5Y5/3-Moist); , 5Y63; , 7.5YR58; Heavy clay; Massive grade of structure; Weak consistence; Slightly plastic; Normal plasticity; 20-50%, coarse gravelly, 20-60mm, rounded, Mudstone, coarse fragments; Sharp change to -
	0.91 - 1.09 m	Olive grey (5Y5/2-Moist); , 10YR58; Sandy medium clay; Massive grade of structure; Weak consistence;

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1.32 - 1.42 m Olive (5Y5/3-Moist); ; Sandy medium clay; Weak consistence; 50-90%, cobbly, 60-200mm, rounded, Dolerite, coarse fragments;

Morphological Notes

Observation Notes

33-43CM 10YR3/1 COATING ON AGGREGATES:0-28CM <10% CHARCOAL ALSO:BLEACHED A2 DEVELOPED IN CLAY DEPRESSIONS "ISLANDS":

Site Notes

HOBART

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[illegible]

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Laboratory Analyses Completed for this profile

15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
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
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