

Project Name: BRK
Project Code: BRK **Site ID:** H112 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	On Malahide paddock 40m north from south boundary:in proposed lanewaybetween experimental paddocks:
Date Desc.:	26/04/55	Elevation:	No Data
Map Ref.:		Rainfall:	790
Northing/Long.:	148.0316667	Runoff:	Rapid
Easting/Lat.:	-41.60833333	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Levee	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Petroferric Grey Sodosol	Principal Profile Form:	Dy3.72
ASC Confidence:	Great Soil Group:	Gleyed podzolic soil
All necessary analytical data are available.		

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.05 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; Diffuse change to -
A12	0.05 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Moderately moist; Firm consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
A21	0.13 - 0.2 m	Greyish brown (10YR5/2-Moist); , 10YR72; Fine sandy loam; Dry; Very firm consistence; 2-10%, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
A22	0.2 - 0.33 m	Light grey (10YR7/1-Moist); , 10YR62, 2-10% ; , 2-10% ; Fine sandy loam (Light); Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Ortstein, Strongly cemented, Massive; Sharp, Irregular change to -
B	0.34 - 0.53 m	Dark greyish brown (10YR4/2-Moist); , 10YR58; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B	0.53 - 0.71 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, Gravel, coarse fragments;
B	0.71 - 0.86 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;
BC	0.96 - 1.09 m	Yellowish brown (10YR5/8-Moist); , 10YR42; , 5Y31; Heavy clay; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments;
C	1.09 - 1.17 m	Yellowish brown (10YR5/8-Moist); , 10YR42; , 5Y31; Heavy clay; Moderately moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments;

Morphological Notes

Observation Notes

13-33CM <10% <2MM SOFT BLACK CONCRETIONS:

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Site Notes

CORNWALL

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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
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
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
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