Project Name: REG

H186 Observation ID: 1 **Project Code:** REG Site ID:

CSIRO Division of Soils (TAS) Agency Name:

Site Information

Desc. By: K.D. Nicholls Locality: 1CH W of Carrick/Oaks/Bracknell Rd 1.8KM N of Oaks

Railway Station:

Date Desc.: 06/03/59 Elevation: 165 metres

Map Ref.: Rainfall: 700

Northing/Long.: 147.975 Runoff: Moderately rapid Easting/Lat.: -41.572222222222 Drainage: Moderately well drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Soil pit Geol. Ref.: No Data **Substrate Material:**

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Rises

1-3%

No Data Morph. Type: Relief: 30 metres No Data Slope Category: Gently inclined Elem. Type: Slope: 2.5 % Aspect: 270 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Sodic Mesotrophic Brown Chromosol **Principal Profile Form:** Dr2.11

ASC Confidence: Great Soil Group: Red 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

0 - 0.1 m Dark brown (7.5YR3/3-Moist); Brown (7.5YR4/4-Dry); ; Clay loam; Weak grade of structure, 2-5 mm, Granular; Very weak consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;

Clear change to -

0.1 - 0.13 m Dark brown (7.5YR3/3-Moist); Brown (7.5YR4/4-Dry); ; Clay loam; Weak grade of structure, 2-5

mm, Subangular blocky; Firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm),

Nodules; Clear, Tongued change to -

0.13 - 0.28 m Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular

blocky; Very firm consistence; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Nodules;

Diffuse change to -

0.28 - 0.46 m Reddish brown (5YR4/4-Moist); , 7.5YR44; Heavy clay; Weak grade of structure, 20-50 mm,

Angular blocky; Very firm consistence; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm),

Nodules: Diffuse change to -

0.46 - 0.64 m Yellowish brown (10YR5/4-Moist); , 2.5YR44; Heavy clay; Weak grade of structure, 20-50 mm,

Prismatic; Firm consistence; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Nodules;

Diffuse change to -

0.64 - 0.81 m Yellowish brown (10YR5/4-Moist); , 7.5YR56; , 2.5YR44; Heavy clay; Massive grade of structure;

Weak consistence; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), ; Diffuse change

0.81 - 1.02 m Light grey (2.5Y7/2-Moist): . 10YR56: . 2.5YR44: Heavy clay: Massive grade of structure: Weak

consistence; Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), ; Clear change to -

White (2.5Y8/2-Moist); , 10YR56; Heavy clay; Massive grade of structure; Weak consistence; 1.02 - 1.29 m

Very few (0 - 2 %), Ferruginous, Very coarse (20 - 60 mm), ;

1.9 - 1.98 m White (2.5Y8/2-Moist); , 7.5YR68; Heavy clay; Weak consistence; Very few (0 - 2 %),

Ferruginous, Very coarse (20 - 60 mm), ;

Morphological Notes

Observation Notes

Site Notes

Project Name: Project Code: Agency Name: REG

REG Site ID: H1: CSIRO Division of Soils (TAS) H186 Observation ID: 1

QUAMBY

H186 Observation ID: 1

Project Name: REG
Project Code: REG Site ID: H18
Agency Name: CSIRO Division of Soils (TAS)

Depth	рН	1:5 EC		changeable			Exchangeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	K	Na Acidity Cmol (+)/kg					%	, D
0 - 0.1	5.8A	0.012A	6.2H	2	0.13	0.19	8H		2	3.9B		
0.1 - 0.13	5.9A	0.012A		2.4	0.11	0.18	15.4E 7.8H 15.6E		2	24B		
0.13 - 0.28	5.6A	0.012A					10.0L					
0.28 - 0.46	5.4A	0.006A	3.5H	3.1	80.0	0.25	10.6H 19.7E		2	6.6B		
0.46 - 0.64	5.3A	0.012A										
0.64 - 0.81	5.1A	0.018A	2.2H	3.3	0.12	0.4	16.6H 21.2E		2	7.2B		
0.81 - 1.02	5A	0.024A										
1.02 - 1.29	5A	0.024A	0.67H	6	0.17	0.41	18.6H 25E		3	2.3B		
1.9 - 1.98	5A	0.018A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV		Size A FS	nalysis Silt C	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1		2.5D		0.053				4	16B	27	17	30
0.1 - 0.13 0.13 - 0.28		2.5D 1.2D		0.048E 0.025E		-		11	19B	24	18	32
0.28 - 0.46 0.46 - 0.64		0.77D		0.019	0.05	58A		16	1D	7	10	79
0.64 - 0.81								7	3D	4	13	77
0.81 - 1.02												
1.02 - 1.29 1.9 - 1.98								<1	<1D	3	13	81
Depth	COLE									ŀ	K unsat	
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15 I	3ar	mm/h		mm/h	

0 - 0.1 0.1 - 0.13 0.13 - 0.28 0.28 - 0.46 0.46 - 0.64 0.64 - 0.81 0.81 - 1.02 1.02 - 1.29 1.9 - 1.98

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Laboratory Analyses Completed for this profile

12_HCL_FE Total element - Fe(%) - Total acid(HCl) extractable Fe

13C1_FE
Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_K
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

2_LOI
2A1
Air-dry moisture content
3A1
EC of 1:5 soil/water extract
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
P10_PB_FS
P10_PB_Z
Coarse sand (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - 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