Project Name: SOR
Project Code: SOR **Site ID:** H191 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Locality: 25M upslope from southern Rd fence:paddock adjoining Midland H`way .7KMsouth of t`off to Colebrook:
Date Desc.: 12/05/59
Elevation: 293 metres
Map Ref.:
Rainfall: 510
Northing/Long.: 147.305555555556
Runoff: Rapid
Easting/Lat.: -42.3875
Drainage: No Data

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Bms
Substrate Material: 0.74 m deep,Sandstone

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%
Pattern Type: Hills
Morph. Type: Lower-slope
Relief: No Data
Elem. Type: Hillslope
Slope Category: Steep
Slope: 24.9 %
Aspect: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Mesonatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.13
Great Soil Group: Solodized solonetz

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Tall Strata - Tree, , . *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Brown (7.5YR4/2-Moist); ; Loam; Weak grade of structure, 2-5 mm, Granular; Weak consistence; Diffuse change to -
0.08 - 0.18 m	Brown (7.5YR4/2-Moist); ; Loam (Light); Weak grade of structure; Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
0.18 - 0.28 m	Brown (7.5YR4/2-Moist); ; Loam (Light); Massive grade of structure; Weak consistence; 2-10%, Gravel, coarse fragments; Abrupt change to -
0.3 - 0.46 m	Dark grey (10YR4/1-Moist); , 5Y43; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Very strong consistence; Diffuse change to -
0.46 - 0.56 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR56; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Diffuse change to -
0.56 - 0.74 m	Olive (5Y4/3-Moist); , 10YR56; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very strong consistence; 2-10%, Gravel, coarse fragments; Sharp change to -
0.74 - 0.84 m	;

Morphological Notes

On hard olive micaceous sandstones:

Observation Notes

30-46CM MOTTLES INSIDE BLOCKS:46-56CM 10YR56 MOTTLES WITH DG(10YR41) COATINGS:

Site Notes

OATLANDS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	6.2A	0.071A	7.8H	1.8	0.75	0.36	4H 7.9E		18.6B	
0.08 - 0.18	6.8A	0.051A								
0.18 - 0.28	7.1A	0.06A	4.5H	1.4	0.38	0.48	2.8E		9.6B	
0.3 - 0.46	7.8A	0.429A	4.6H	5.2	1	2.8	3.3E		16.9B	
0.46 - 0.56	8.4A	0.568A								
0.56 - 0.74	8.5A	0.705A	3.4H	6.5	6.5	3.9			14.8B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		2.8D		0.034D	0.216A			0	5B	62	11	16
0.08 - 0.18		1.4D		0.036D	0.117A							
0.18 - 0.28		0.76D		0.02D	0.073A			2	7D	65	13	15
0.3 - 0.46		1.2D		0.02D	0.122A			0	2D	36	6	54
0.46 - 0.56												
0.56 - 0.74								2	2B	30	6	63

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.08									
0.08 - 0.18									
0.18 - 0.28									
0.3 - 0.46									
0.46 - 0.56									
0.56 - 0.74									

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca2+,Mg2+,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