Project Name: SOR
Project Code: SOR **Site ID:** H190 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Locality: 41M W of fence 6CH south of Rd:4KM north west of Baden:
Date Desc.: 12/05/59
Elevation: 533 metres
Map Ref.:
Rainfall: 630
Northing/Long.: 147.45
Runoff: Rapid
Easting/Lat.: -42.4
Drainage: Well drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Auger boring, 0.91 m deep,Sandstone

Land Form

Rel/Slope Class: Undulating hills 90-300m 3-
Pattern Type: Hills
Morph. Type: No Data
Relief: No Data
Elem. Type: Hillslope
Slope Category: Gently inclined
Slope: 7 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Dystrophic Mottled-Hypernatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg5.11
Great Soil Group: Brown podzolic soil

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus obliqua, Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark brown (7.5YR2/2-Moist); ; Loamy sand (Heavy); Weak grade of structure, 2-5 mm, Granular; Moderately moist; Very weak consistence; 0-2%, Gravel, coarse fragments; Sharp, Irregular change to -
A2	0.13 - 0.25 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand (Heavy); Weak grade of structure; Firm consistence; 2-10%, angular, Sandstone, coarse fragments; Diffuse change to -
A2	0.25 - 0.38 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand (Heavy); Weak grade of structure; Firm consistence; 2-10%, angular, Sandstone, coarse fragments;
B	0.38 - 0.48 m	Yellow (2.5Y7/6-Moist); , 5YR54; , N50; Sandy loam; Weak grade of structure; Firm consistence; 20-50%, Gravel, coarse fragments; Clear change to -
B	0.48 - 0.58 m	Pale yellow (2.5Y7/4-Moist); , 2.5YR58; Sandy loam; Weak grade of structure; Firm consistence; 2-10%, Gravel, coarse fragments; Sharp change to -
	0.58 - 0.69 m	Strong brown (7.5YR5/8-Moist); , N70; Sandy medium clay (Light); Strong grade of structure, 50-100 mm, Columnar; Fine, (0 - 5) mm crack; Very firm consistence; Clear change to -
	0.69 - 0.84 m	White (5Y8/2-Moist); , 7.5YR58; Clayey sand; Strong grade of structure, 50-100 mm, Columnar; Fine, (0 - 5) mm crack; Very firm consistence;

Morphological Notes

Observation Notes

58-69CM DK STAINED FACES + GLEYING ON EITHER SIDE OF FACE:58-84CM CONCENTRATION OF ROOTS DOWN CRACKS:

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 - 0.1	5.1A	0.06A	3.1H	1.5	0.25	0.31	22.6H 33.6E		38.8B	
0.13 - 0.25	5.5A	0.042A	0.21H	0.55	0.16	22	6.4H 12.4E		13.5B	
0.25 - 0.38	5.3A	0.036A								
0.38 - 0.48	5.3A	0.039A	0.1H	0.15	0.1	0.17	7.3H 11.3E		11.8B	
0.48 - 0.58	5.4A	0.027A								
0.58 - 0.69	5.5A	0.06A	0.1H	0.56	0.14	0.29	6H 9.3E		10.4B	
0.69 - 0.84	5.7A	0.065A								

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 - 0.1		6.8D		0.02D	0.174A			2	25B	51	4	9
0.13 - 0.25		1.5D		0.012D	0.046A			5	24B	57	3	11
0.25 - 0.38		1.1D			0.042A							
0.38 - 0.48		0.87D			0.045A			23	28D	51	5	16
0.48 - 0.58												
0.58 - 0.69								0	20D	45	4	33
0.69 - 0.84												

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 - 0.1									
0.13 - 0.25									
0.25 - 0.38									
0.38 - 0.48									
0.48 - 0.58									
0.58 - 0.69									
0.69 - 0.84									

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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