Project Name: SOR
Project Code: SOR **Site ID:** H209 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: Graley, A
Locality: Property "St Peter`s Pass":4KM E of Oatlands/Interlarken Rd where it crosses Mike Howe`s Marsh:
Date Desc.: 27/03/61
Elevation: 610 metres
Map Ref.:
Rainfall: 630
Northing/Long.: 147.321666666667
Runoff: Moderately rapid
Easting/Lat.: -42.2916666666667
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Auger boring, 1.2 m deep,Dolerite

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Eutrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Db2.81
Great Soil Group: Brown podzolic soil

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus viminalis, Acacia species

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Fine sandy loam; Moderate grade of structure, 2-5 mm, Granular; Moderate grade of structure, <2 mm, Granular; Weak consistence; 2-10%, stony, 200-600mm, Dolerite, coarse fragments; Diffuse change to -
A1	0.02 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Fine sandy loam; Moderate grade of structure, 2-5 mm, Granular; Moderate grade of structure, <2 mm, Granular; Weak consistence; 2-10%, stony, 200-600mm, Dolerite, coarse fragments; Diffuse change to -
A2	0.08 - 0.3 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; 10-20%, stony, 200-600mm, Dolerite, coarse fragments; Sharp change to -
B	0.3 - 0.51 m	Dark yellowish brown (10YR4/4-Moist); , 7.5YR56; , 2.5YR52; Heavy clay; Massive grade of structure; Very firm consistence; 2-10%, stony, 200-600mm, Dolerite, coarse fragments; FewDiffuse change to -
B	0.51 - 0.69 m	Dark yellowish brown (10YR4/4-Moist); , 7.5YR56; , 2.5YR52; Heavy clay; Massive grade of structure; Very firm consistence; 2-10%, stony, 200-600mm, Dolerite, coarse fragments; FewDiffuse change to -
BC	0.74 - 0.81 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56; Sandy medium clay; Massive grade of structure; Firm consistence; 2-10%, stony, 200-600mm, Dolerite, coarse fragments; Diffuse change to -
C	0.99 - 1.14 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -

Morphological Notes

Observation Notes

WORM ACTIVITY THROUGHOUT PROFILEL:0-30CM OCCASIONAL PIECES OF CHARCOAL:

Site Notes

INTERLARKEN

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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 - 0.02	5.6A	0.149A	12.8H	4.6	0.45	0.18	9.9H		27.9E	
0.02 - 0.06	5.2A	0.179A	9.5H	3.1	0.2	0.19	9.5H		22.5E	
0.08 - 0.3	5.3A	0.08A	5H	1.7	0.07	0.08	4.8H		11.7E	
0.3 - 0.51	5.7A	0.033A	7.4H	11.9	0.06	0.44	3.7H		23.5E	
0.51 - 0.69	5.8A	0.048A								
0.74 - 0.81	5.7A	0.101A								
0.99 - 1.14	5.3A	0.185A	7.8H	10.5	0.06	1.2	2.5H		22.1E	

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 - 0.02		6.42D		0.018D	0.255A			0	7B	54	10	17
0.02 - 0.06		4.14D		0.006D	0.187A			1	7B	60	10	16
0.08 - 0.3		1.88D			0.08A			14	10D	63	14	11
0.3 - 0.51		0.5D			0.034A			5	8D	37	10	44
0.51 - 0.69												
0.74 - 0.81												
0.99 - 1.14								11	14D	41	20	22

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 - 0.02									
0.02 - 0.06									
0.08 - 0.3									
0.3 - 0.51									
0.51 - 0.69									
0.74 - 0.81									
0.99 - 1.14									

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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
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