Project Name: TAM
Project Code: TAM **Site ID:** H263 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: 4.8KM west of Exeter property "Spring Valley":89M NW from gate along Rdthen 21M NE of paddock fence:
Date Desc.: 08/04/64
Elevation: 50 metres
Map Ref.:
Rainfall: 910
Northing/Long.: 146.891666666667
Runoff: Very slow
Easting/Lat.: -41.2986111111111
Drainage: Poorly 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: Flood plain
Morph. Type: Flat
Relief: No Data
Elem. Type: Supratidal flat
Slope Category: Level
Slope: 0 %
Aspect: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Dermosolic Redoxic Hydrosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.11
Great Soil Group: Humic gley

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Mid Strata - Tree, , Isolated clumps. *Species includes - None recorded
Tall Strata - Tree, , Isolated clumps. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Granular; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartzite, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
	0.05 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Heavy); Moderate grade of structure, 2-5 mm, Granular; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
	0.1 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Granular; Very weak consistence; 2-10%, subangular, Quartz, coarse fragments; Abundant, fine (1-2mm) roots; Gradual, Irregular change to -
	0.18 - 0.27 m	Very dark greyish brown (10YR3/2-Moist); , 10YR41; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Strong consistence; 20-50%, stratified, Charcoal, coarse fragments; FewDiffuse change to -
	0.27 - 0.46 m	Dark grey (10YR4/1-Moist); , 10YR44; , 7.5YR58; Heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Strong consistence; 2-10%, subangular, Quartz, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
	0.46 - 0.66 m	Dark grey (10YR4/1-Moist); , 7.5YR58; Heavy clay; Massive grade of structure; Slightly plastic; Normal plasticity; 2-10%, subangular, Quartz, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
	0.66 - 0.89 m	Dark grey (10YR4/1-Moist); , 7.5YR58; Heavy clay; Massive grade of structure; Slightly plastic; Normal plasticity; 0-2%, subangular, Quartz, coarse fragments; Diffuse change to -
	0.89 - 1.09 m	Dark grey (10YR4/1-Moist); , 7.5YR58; Heavy clay; Massive grade of structure; 0-2%, subangular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

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Site Notes
QUAMBY

10-18CM <10% <12MM CHARCOAL ALSO:10-109CM ROUNDED QUARTZITE ALSO:18-27CM <10% SA+ROUNDED QZ+QU

ALSO:

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05	5.7A	0.092A	10.6H	3.4	0.37	0.5	18.7E		33.6B	
0.05 - 0.1	5.9A	0.057A	10.3H	3.3	0.2	0.49	17.7E		32B	
0.1 - 0.18	5.9A	0.054A	9.3H	3.4	0.2	0.59	17.6E		31.1B	
0.18 - 0.27	6.2A	0.042A								
0.27 - 0.46	6.3A	0.042A	7.1H	3.3	0.16	0.56	6.6E		17.7B	
0.46 - 0.66	6.2A	0.045A								
0.66 - 0.89	6.1A	0.048A	6.5H	3.8	0.18	0.68	7E		18.2B	
0.89 - 1.09	6.1A	0.045A								

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 - 0.05		4.64D		0.037D	0.361A			<1	4B	29	27	31
0.05 - 0.1		3.51D		0.029D	0.263A			<1	5B	29	26	32
0.1 - 0.18		3.3D			0.256A			<1	5B	29	27	34
0.18 - 0.27												
0.27 - 0.46								<1	10D	29	21	39
0.46 - 0.66												
0.66 - 0.89								<1	9D	28	20	40
0.89 - 1.09												

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 - 0.05									
0.05 - 0.1									
0.1 - 0.18									
0.18 - 0.27									
0.27 - 0.46									
0.46 - 0.66									
0.66 - 0.89									
0.89 - 1.09									

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Laboratory Analyses Completed for this profile

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