Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1108** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	B. Purdie	**Locality:**	
Date Desc.:	22/04/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6513813 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	402068 Datum: AGD84	**Drainage:**	No Data

Geology

ExposureType:	Existing vertical exposure	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Plain
Morph. Type:	Open depression (vale)	**Relief:**	No Data
Elem. Type:	Drainage depression	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition

Erosion: (wind); (scald) (sheet) (wave) (rill) (mass) (gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:
Parapanic Humic Aquic Podosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Uc1.21
Great Soil Group: N/A

Site

Vegetation:

Surface Coarse

Profile

A1h 0 - 0.4 m Black (2.5YR2/0-Moist); ; Sandy loam; Weak grade of structure, 50-100 mm, Platy; Moist; Weak consistence; Field pH 4.3 (pH meter); Clear change to -

A21 0.4 - 0.6 m Dark greyish brown (10YR4/2-Moist); ; Clayey sand; Single grain grade of structure; Moist; Very weak consistence; Field pH 4.4 (pH meter); Clear change to -

A22 0.6 - 1.3 m Greyish brown (10YR5/2-Moist); ; Clayey sand; Single grain grade of structure; Wet; Very weak consistence; Field pH 4.9 (pH meter); Clear change to -

A23e 1.3 - 1.5 m White (10YR8/1-Moist); ; Sand; Single grain grade of structure; Wet; Field pH 5.4 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Photos Roll 58-16/17. Cropping of hay. Moist topsoil - humic. effective soil depth less due to high water table.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.01 - 0.4	3.5B 4.8H	12B	3.48H	2.33	0.12	0.95	0.28J		6.88D	
0.01 - 0.4	3.5B 4.8H	12B	3.48H	2.33	0.12	0.95	0.28J		6.88D	
0.01 - 0.4	3.5B 4.8H	12B	3.48H	2.33	0.12	0.95	0.28J		6.88D	
0.14 - 0.19										
0.4 - 0.6	3.6B 4.9H	3B	0.07H	0.35	<0.02	0.1	0.05J		0.53D	
0.4 - 0.6	3.6B 4.9H	3B	0.07H	0.35	<0.02	0.1	0.05J		0.53D	
0.4 - 0.6	3.6B 4.9H	3B	0.07H	0.35	<0.02	0.1	0.05J		0.53D	
0.5 - 0.55										
0.6 - 1.3	4.2B 5.6H	2B	0.1H	0.28	0.02	0.06	0.03J		0.46D	
0.6 - 1.3	4.2B 5.6H	2B	0.1H	0.28	0.02	0.06	0.03J		0.46D	
0.6 - 1.3	4.2B 5.6H	2B	0.1H	0.28	0.02	0.06	0.03J		0.46D	
1.3 - 1.5	4.8B 5.8H	1B	<0.02K	0.03	<0.02	0.04			0.09D	
1.3 - 1.5	4.8B 5.8H	1B	<0.02K	0.03	<0.02	0.04			0.09D	
1.3 - 1.5	4.8B 5.8H	1B	<0.02K	0.03	<0.02	0.04			0.09D	

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			%	
0.01 - 0.4		3.37D		41B	0.098E						4.4
3.2											
0.01 - 0.4		3.37D		41B	0.098E						4.4
3.2											
0.01 - 0.4		3.37D		41B	0.098E						4.4
3.2											
0.14 - 0.19							1.30				
0.4 - 0.6		0.59D		11B	0.008E						2.2
0.9											
0.4 - 0.6		0.59D		11B	0.008E						2.2
0.9											
0.4 - 0.6		0.59D		11B	0.008E						2.2
0.9											
0.5 - 0.55							1.60				
0.6 - 1.3		0.39D		12B	<0.005E						1.7
0.7											
0.6 - 1.3		0.39D		12B	<0.005E						1.7
0.7											
0.6 - 1.3		0.39D		12B	<0.005E						1.7
0.7											
1.3 - 1.5		0.05D		<10B	<0.005E						1.2
0.3											
1.3 - 1.5		0.05D		<10B	<0.005E						1.2
0.3											
1.3 - 1.5		0.05D		<10B	<0.005E						1.2
0.3											

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

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15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
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
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_20_100	20 to 100u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10100_200	100 to 200u particle size analysis, (method not recorded)
P10200_600	200 to 600u particle size analysis, (method not recorded)
P106002000	600 to 2000u particle size analysis, (method not recorded)
P3A_NR	Bulk density - Not recorded