Project Name: **North Coastal Plain land resources survey**
Project Code: **NCP** **Site ID:** **0879** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Noel Schoknecht	**Locality:**	
Date Desc.:	10/12/92	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6655749 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	327805 Datum: AGD84	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Landform

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	No Data

Surface Soil Condition

Soft

Erosion

Soil Classification

Australian Soil Classification:
Mesotrophic Subnatric Brown Sodosol Thick Non-gravelly Sandy Clayey Deep

Mapping Unit: N/A
Principal Profile Form: Dy5.42

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: N/A

Site Disturbance

Complete clearing. Pasture, native or improved, but never cultivated

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.15 m Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Single grain grade of structure; Dry; Very weak consistence; Water repellent; Field pH 6 (pH meter); Gradual change to -

A2 0.15 - 0.3 m Pale brown (10YR6/3-Moist); ; Loamy fine sand; Single grain grade of structure; Moderately moist; Very weak consistence; Field pH 6.5 (pH meter); Gradual change to -

A3 0.3 - 0.4 m Yellowish brown (10YR5/4-Moist); , 10YR58, 2-10% , 0-5mm, Faint; Clayey sand; Moderate grade of structure; Moderately moist; Weak consistence; Field pH 6.5 (pH meter); Clear change to -

B21 0.4 - 0.75 m Yellowish brown (10YR5/4-Moist); , 2.5YR48, 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Diffuse change to -

B22 0.75 - 1.15 m Dark grey (10YR4/1-Moist); , 10R46, 20-50% , 5-15mm, Prominent; Heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Diffuse change to -

BC 1.15 - 1.5 m Dark grey (10YR4/1-Moist); , 10R36, 20-50% , 15-30mm, Prominent; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Mottled brown duplex.

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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 - 0.15	5.1B 6H 5.5H	4B 3.3B	1.86H	0.34	0.08	0.05	0.1J		2.33D	
0 - 0.15	5.1B 6H 5.5H	4B 3.3B	1.86H	0.34	0.08	0.05	0.1J		2.33D	
0 - 0.15	5.1B 6H 5.5H	4B 3.3B	1.86H	0.34	0.08	0.05	0.1J		2.33D	
0.15 - 0.3	4.6B 5.6H 5.1H	2B 1.5B	0.37H	0.16	0.06	0.02	0.12J		0.61D	
0.15 - 0.3	4.6B 5.6H 5.1H	2B 1.5B	0.37H	0.16	0.06	0.02	0.12J		0.61D	
0.15 - 0.3	4.6B 5.6H 5.1H	2B 1.5B	0.37H	0.16	0.06	0.02	0.12J		0.61D	
0.3 - 0.4	4.7B 6H 5.5H	2B 1.8B	0.99H	0.6	0.22	0.09	0.14J		1.9D	
0.3 - 0.4	4.7B 6H 5.5H	2B 1.8B	0.99H	0.6	0.22	0.09	0.14J		1.9D	
0.3 - 0.4	4.7B 6H 5.5H	2B 1.8B	0.99H	0.6	0.22	0.09	0.14J		1.9D	
0.4 - 0.75	5.5B 6.3H 6H	7B	1.75H	5.08	0.45	0.8	0.02J		8.08D	
0.4 - 0.75	5.5B 6.3H 6H	7B	1.75H	5.08	0.45	0.8	0.02J		8.08D	
0.4 - 0.75	5.5B 6.3H 6H	7B	1.75H	5.08	0.45	0.8	0.02J		8.08D	
0.75 - 1.15	4.5B 6.2H 5.6H	8B 7.1B	1.02H	6.17	0.45	2.47	0.17J		10.11D	
0.75 - 1.15	4.5B 6.2H 5.6H	8B 7.1B	1.02H	6.17	0.45	2.47	0.17J		10.11D	
0.75 - 1.15	4.5B 6.2H 5.6H	8B 7.1B	1.02H	6.17	0.45	2.47	0.17J		10.11D	
1.15 - 1.5	4.2B 5.5H 5.2H	20B 21.1B	1.24H	7.98	0.49	5.19	0.3J		14.9D	
1.15 - 1.5	4.2B 5.5H 5.2H	20B 21.1B	1.24H	7.98	0.49	5.19	0.3J		14.9D	

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1.15 - 1.5	4.2B 5.5H 5.2H	20B 21.1B	1.24H	7.98	0.49	5.19	0.3J	14.9D

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		1.16D		95B	0.78E						1.8
2.7											
0 - 0.15		1.16D		95B	0.78E						1.8
2.7											
0 - 0.15		1.16D		95B	0.78E						1.8
2.7											
0.15 - 0.3		0.19D		71B	0.016E						2.9
2.6											
0.15 - 0.3		0.19D		71B	0.016E						2.9
2.6											
0.15 - 0.3		0.19D		71B	0.016E						2.9
2.6											
0.3 - 0.4		0.22D		66B	0.024E						5.6
15.5											
0.3 - 0.4		0.22D		66B	0.024E						5.6
15.5											
0.3 - 0.4		0.22D		66B	0.024E						5.6
15.5											
0.4 - 0.75				70B	0.037E						8.3
43.6											
0.4 - 0.75				70B	0.037E						8.3
43.6											
0.4 - 0.75				70B	0.037E						8.3
43.6											
0.75 - 1.15				48B	0.028E						11.3
35.7											
0.75 - 1.15				48B	0.028E						11.3
35.7											
0.75 - 1.15				48B	0.028E						11.3
35.7											
1.15 - 1.5				50B	0.023E						13.5
24.4											
1.15 - 1.5				50B	0.023E						13.5
24.4											
1.15 - 1.5				50B	0.023E						13.5
24.4											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - 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_MN	Exchangeable bases (Mn2+) 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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u 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
P10106_150	106 to 150u particle size analysis, (method not recorded)

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P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)