

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0874 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Noel Schoknecht	Locality:	
Date Desc.:	09/12/92	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6648916 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	332604 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mottled-Subnatric Grey Sodosol		Principal Profile Form:	Dy5.22
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

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

Vegetation

Surface Coarse Fragments

Profile Morphology

A11	0 - 0.13 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Single grain grade of structure; Dry; Field pH 5.5
		(pH meter); Abrupt, Smooth change to -
A12	0.13 - 0.26 m	Yellowish brown (10YR5/8-Moist); ; Clayey sand; Moderate grade of structure; Dry; Field pH 6 (pH
		meter); Clear, Smooth change to -
A2	0.26 - 0.4 m	Light yellowish brown (10YR6/4-Moist); ; Clayey sand; Moderate grade of structure; Dry; 50-90%,
		Ironstone, coarse fragments; Field pH 6.5 (pH meter); Clear, Wavy change to -
B21	0.4 - 1.25 m	Light grey (10YR7/1-Moist); , 10YR68, 20-50% , 5-15mm, Prominent; Light medium clay; Moderate
		grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Dry; 2-10%, Ironstone, coarse
		fragments; Field pH 7 (pH meter); Gradual, Irregular change to -
B22	1.25 - 2 m	Light brownish grey (10YR6/2-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 2.5Y20, 2-10% , 5-15mm,
		Distinct; Light medium clay; Weak grade of structure, 5-10 mm, Subangular blocky;
		Smooth-ped fabric;
		Moderately moist; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;
		Soil matrix is
		Highly calcareous; Field pH 9.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Soil sample site. Sand over thin ironstone gravel layer over mottled clay. Gravels 2-5 mm, smooth faced ironstone. Mottled meso grey chromosol.

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0874 **Observation** 1
Agency Name: Agriculture Western Australia

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.13	4.7B 5.7H 5.3H	6B	0.98H	0.3	0.19	0.14	0.18J		1.61D	
0 - 0.13	4.7B 5.7H 5.3H	6B	0.98H	0.3	0.19	0.14	0.18J		1.61D	
0 - 0.13	4.7B 5.7H 5.3H	6B	0.98H	0.3	0.19	0.14	0.18J		1.61D	
0.13 - 0.26	4.5B 5.5H 5.1H	2B 1.9B	0.23H	0.14	0.06	0.05	0.16J		0.48D	
0.13 - 0.26	4.5B 5.5H 5.1H	2B 1.9B	0.23H	0.14	0.06	0.05	0.16J		0.48D	
0.13 - 0.26	4.5B 5.5H 5.1H	2B 1.9B	0.23H	0.14	0.06	0.05	0.16J		0.48D	
0.26 - 0.4	4.8B 6H 5.7H	2B 1.2B	0.58H	0.35	0.1	0.06	0.09J		1.09D	
0.26 - 0.4	4.8B 6H 5.7H	2B 1.2B	0.58H	0.35	0.1	0.06	0.09J		1.09D	
0.26 - 0.4	4.8B 6H 5.7H	2B 1.2B	0.58H	0.35	0.1	0.06	0.09J		1.09D	
0.4 - 1.25	6B 7H 6.6H	5B 5.5B	1.63A	3.79	0.29	0.7			6.41D	
0.4 - 1.25	6B 7H 6.6H	5B 5.5B	1.63A	3.79	0.29	0.7			6.41D	
0.4 - 1.25	6B 7H 6.6H	5B 5.5B	1.63A	3.79	0.29	0.7			6.41D	
1.25 - 2	7.8B 9H 8.8H	15B 20.9B	3.48E	9.72	0.57	3.22		17B	16.99D	18.94
1.25 - 2	7.8B 9H 8.8H	15B 20.9B	3.48E	9.72	0.57	3.22		17B	16.99D	18.94
1.25 - 2	7.8B 9H 8.8H	15B 20.9B	3.48E	9.72	0.57	3.22		17B	16.99D	18.94

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.13 4.6		1.03D		110B	0.087E					2.3

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0874 **Observation** 1
Agency Name: Agriculture Western Australia

0 - 0.13 4.6	1.03D	110B	0.087E	2.3
0 - 0.13 4.6	1.03D	110B	0.087E	2.3
0.13 - 0.26 4.4	0.17D	34B	0.016E	1.4
0.13 - 0.26 4.4	0.17D	34B	0.016E	1.4
0.13 - 0.26 4.4	0.17D	34B	0.016E	1.4
0.26 - 0.4 9.8	0.18D	39B	0.019E	2.5
0.26 - 0.4 9.8	0.18D	39B	0.019E	2.5
0.26 - 0.4 9.8	0.18D	39B	0.019E	2.5
0.4 - 1.25 44.7		54B	0.011E	8
0.4 - 1.25 44.7		54B	0.011E	8
0.4 - 1.25 44.7		54B	0.011E	8
1.25 - 2 25.9	<2C	46B	0.008E	11
1.25 - 2 25.9	<2C	46B	0.008E	11
1.25 - 2 25.9	<2C	46B	0.008E	11

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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

15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO ₃) - 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)

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0874 **Observation** 1
Agency Name: Agriculture Western Australia

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)
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)