

**Project Name:** North Coastal Plain land resources survey  
**Project Code:** NCP **Site ID:** 0872 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Noel Schoknecht	<b>Locality:</b>	
<b>Date Desc.:</b>	09/12/92	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6650180 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	333237 Datum: AGD84	<b>Drainage:</b>	Rapidly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Landform

**Rel/Slope Class:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Soft

#### Erosion

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Mesotrophic Yellow Kandosol		<b>Principal Profile Form:</b>	Uc5.11
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

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

#### Vegetation

#### Surface Coarse Fragments

#### Profile Morphology

A1	0 - 0.25 m	Dark brown (10YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Dry; Very weak consistence;
		Water repellent; Field pH 6.5 (pH meter); Clear, Wavy change to -
B1	0.25 - 0.5 m	Yellowish brown (10YR5/8-Moist); ; Clayey sand; Moderate grade of structure; Dry; Weak consistence;
		Field pH 6.5 (pH meter); Diffuse change to -
B21	0.5 - 1.2 m	Brownish yellow (10YR6/8-Moist); ; Sandy loam; Moderate grade of structure; Dry; Weak consistence;
		Field pH 7 (pH meter); Diffuse change to -
B22	1.2 - 1.8 m	Brownish yellow (10YR6/8-Moist); ; Sandy loam; Moderate grade of structure; Dry; Weak consistence; 2-
		10%, Limestone, coarse fragments; Field pH 7.5 (pH meter);

#### Morphological Notes

B22 Coarse fragments, weakly cemented ironstone gravel, and occasional coarse sand, 2 - 5mm diameter. Rough faced.

#### Observation Notes

#### Site Notes

Deep yellow sand. Boundary between A1 and B1 clear - probably due to cultivation effects. Soil sample site.

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.25	4.8B 5.7H	5B 4.9B	1.35H	0.24	0.16	0.08	0.08J		1.83D	

0 - 0.25	5.4H 4.8B 5.7H	5B 4.9B	1.35H	0.24	0.16	0.08	0.08J	1.83D
0 - 0.25	5.4H 4.8B 5.7H	5B 4.9B	1.35H	0.24	0.16	0.08	0.08J	1.83D
0.25 - 0.5	5.4H 4.4B 5.3H	2B 2.1B	0.5H	0.14	0.11	0.04	0.12J	0.79D
0.25 - 0.5	5H 4.4B 5.3H	2B 2.1B	0.5H	0.14	0.11	0.04	0.12J	0.79D
0.25 - 0.5	5H 4.4B 5.3H	2B 2.1B	0.5H	0.14	0.11	0.04	0.12J	0.79D
0.5 - 1.2	5H 5.8B 6.8H	2B 2.5B	1.05A	0.23	0.16	0.14		1.58D
0.5 - 1.2	6.4H 5.8B 6.8H	2B 2.5B	1.05A	0.23	0.16	0.14		1.58D
0.5 - 1.2	6.4H 5.8B 6.8H	2B 2.5B	1.05A	0.23	0.16	0.14		1.58D
1.2 - 1.8	6.4H 6.1B 6.8H	3B 3.1B	0.82A	0.31	0.16	0.16		1.45D
1.2 - 1.8	6.4H 6.1B 6.8H	3B 3.1B	0.82A	0.31	0.16	0.16		1.45D
1.2 - 1.8	6.4H 6.1B 6.8H	3B 3.1B	0.82A	0.31	0.16	0.16		1.45D

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.25 3.7		0.45D		100B	0.036E			1.2
0 - 0.25 3.7		0.45D		100B	0.036E			1.2
0 - 0.25 3.7		0.45D		100B	0.036E			1.2
0.25 - 0.5 7.5		0.18D		69B	0.014E			0.8
0.25 - 0.5 7.5		0.18D		69B	0.014E			0.8
0.25 - 0.5 7.5		0.18D		69B	0.014E			0.8
0.5 - 1.2 16		0.1D		45B	0.011E			2.1
0.5 - 1.2 16		0.1D		45B	0.011E			2.1
0.5 - 1.2 16		0.1D		45B	0.011E			2.1
1.2 - 1.8 16				54B	0.007E			2.4

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1.2 - 1.8	54B	0.007E	2.4
16			
1.2 - 1.8	54B	0.007E	2.4
16			

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
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
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)
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)
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)