

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0873 **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.:	6650247 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	332878 Datum: AGD84	Drainage:	Well drained

Geology

ExposureType:	Auger boring	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:	5 %	Aspect:	No Data

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Mesotrophic Brown Dermosol	Principal Profile Form:	Dr4.12
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

A1	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; Field pH 6 (pH meter); Abrupt change to -
B21	0.05 - 0.25 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 2-10%, Sandstone, coarse fragments; Field pH 6 (pH meter); Clear change to -
B22	0.25 - 0.65 m	Brown (10YR5/3-Moist); , 5YR46, 2-10% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6.5 (pH meter); Gradual change to -
B23	0.65 - 1.25 m	Dark yellowish brown (10YR4/4-Moist); , 2.5YR44, 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, Shale, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Concretions; Field pH 7 (pH meter); Diffuse change to -
B24	1.25 - 1.75 m	Reddish brown (2.5YR4/4-Moist); , 10YR44, 2-10% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Moist; Strong consistence; 0-2%, Shale, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9 (pH meter);

Morphological Notes

B22	Ferromanganiferous nodules/soft segregations common
B23	Ferromanganiferous nodules/soft segregations common, in situ weathering of shale bedrock

B24

in situ weathering of shale bedrock

Observation Notes**Site Notes**

Mottled meso red kandosol. Top layers of colluvial origin ?

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Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.05	5.3B 6.1H 5.8H	8B 8.4B	7.54H	3.36	0.86	0.26	0.03J		12.02D	
0 - 0.05	5.3B 6.1H 5.8H	8B 8.4B	7.54H	3.36	0.86	0.26	0.03J		12.02D	
0 - 0.05	5.3B 6.1H 5.8H	8B 8.4B	7.54H	3.36	0.86	0.26	0.03J		12.02D	
0.05 - 0.25	5.2B 6.5H 6.1H	3B	5.34H	4.04	0.64	0.33	0.02J		10.35D	
0.05 - 0.25	5.2B 6.5H 6.1H	3B	5.34H	4.04	0.64	0.33	0.02J		10.35D	
0.05 - 0.25	5.2B 6.5H 6.1H	3B	5.34H	4.04	0.64	0.33	0.02J		10.35D	
0.25 - 0.65	5.5B 7H 6.5H	3B 4B	6.12A	9.91	0.4	1.19			17.62D	
0.25 - 0.65	5.5B 7H 6.5H	3B 4B	6.12A	9.91	0.4	1.19			17.62D	
0.25 - 0.65	5.5B 7H 6.5H	3B 4B	6.12A	9.91	0.4	1.19			17.62D	
0.65 - 1.25	6.7B 8.1H 7.8H	15B 15.5B	5.57E	9.59	0.31	3.26		22B	18.73D	14.82
0.65 - 1.25	6.7B 8.1H 7.8H	15B 15.5B	5.57E	9.59	0.31	3.26		22B	18.73D	14.82
0.65 - 1.25	6.7B 8.1H 7.8H	15B 15.5B	5.57E	9.59	0.31	3.26		22B	18.73D	14.82
1.25 - 1.75	8.1B 8.9H 8.9H	62B 59.8B	5.42E	10	0.3	5.03		21B	20.75D	23.95
1.25 - 1.75	8.1B 8.9H 8.9H	62B 59.8B	5.42E	10	0.3	5.03		21B	20.75D	23.95
1.25 - 1.75	8.1B 8.9H 8.9H	62B 59.8B	5.42E	10	0.3	5.03		21B	20.75D	23.95

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.05 16.4		3.21D		400B	0.222E						14.8

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0 - 0.05 16.4	3.21D	400B	0.222E	14.8
0 - 0.05 16.4	3.21D	400B	0.222E	14.8
0.05 - 0.25 34.5	0.76D	270B	0.069E	15
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0.05 - 0.25 34.5	0.76D	270B	0.069E	15
0.25 - 0.65 52.7	0.26D	140B	0.03E	14.9
0.25 - 0.65 52.7	0.26D	140B	0.03E	14.9
0.25 - 0.65 52.7	0.26D	140B	0.03E	14.9
0.65 - 1.25 54.5	<2C	150B	0.024E	14.8
0.65 - 1.25 54.5	<2C	150B	0.024E	14.8
0.65 - 1.25 54.5	<2C	150B	0.024E	14.8
1.25 - 1.75 55.4	3C	130B	0.024E	15
1.25 - 1.75 55.4	3C	130B	0.024E	15
1.25 - 1.75 55.4	3C	130B	0.024E	15

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)

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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)