

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0185 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 03/07/95  
**Map Ref.:**  
**Northing/Long.:** 6267950 AMG zone: 50  
**Easting/Lat.:** 625955 Datum: AGD84  
**Locality:**  
**Elevation:** 340 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Poorly drained

#### Geology

**ExposureType:** Auger boring  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

#### Landform

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

**Morph. Type:** Mid-slope  
**Elem. Type:** Hillslope  
**Slope:** 1 %  
**Relief:** 5 metres  
**Slope Category:** No Data  
**Aspect:** 90 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

**Erosion** (wind); (sheet) (rill) (gully)

#### Soil Classification

**Australian Soil Classification:** Hypocalcic Subnatric Grey Sodosol  
**ASC Confidence:** All necessary analytical data are available.  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy2.13  
**Great Soil Group:** N/A

**Site Disturbance** Cultivation. Rainfed

#### Vegetation

**Surface Coarse Fragments** 10-20%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

#### Profile Morphology

Ap	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Moist; Field pH 6 (Raupach); Abrupt,
		Wavy change to -
B21	0.1 - 0.4 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sandy medium clay; Strong grade of structure; Rough-ped fabric;
		Moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -
B3	0.4 - 0.8 m	White (2.5Y8/2-Moist); , 0-0% ; Coarse sandy light medium clay; Strong grade of structure; Rough-ped
		fragments; Soil matrix is
		Moderately calcareous; Field pH 9.5 (Raupach); Clear change to -
C	0.8 - 0.9 m	White (10YR8/1-Moist); , 0-0% ; Coarse sandy medium clay; Weak grade of structure; Rough-ped fabric;
		Slightly
		Dry; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Soil matrix is calcareous; Field pH 9 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Acidity			%
						Cmol (+)/kg			
0 - 0.1	5.2B								

0.1 - 0.3	7B	11B	3.36A	6.18	0.09	1.04	10.67D
	8H						
0.1 - 0.3	7B	11B	3.36A	6.18	0.09	1.04	10.67D
	8H						
0.1 - 0.3	7B	11B	3.36A	6.18	0.09	1.04	10.67D
	8H						
0.15 - 0.25	7B						
0.4 - 0.5	8.1B						

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 - 0.1								
0.1 - 0.3	<2C	0.24D						56.5l 4
39.5								
0.1 - 0.3	<2C	0.24D						56.5l 4
39.5								
0.1 - 0.3	<2C	0.24D						56.5l 4
39.5								
0.15 - 0.25								
0.4 - 0.5								

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, 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
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded