

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0126 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 13/06/95  
**Map Ref.:**  
**Northing/Long.:** 6269750 AMG zone: 50  
**Easting/Lat.:** 604410 Datum: AGD84  
**Locality:**  
**Elevation:** 300 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:** Level plain <9m <1%  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0 %  
**Pattern Type:** Alluvial plain  
**Relief:** 5 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Cracking, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** Hypocalcic Hypernatric 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 Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation

#### Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

#### Profile Morphology

A1 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Clay loam, sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Dry; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Wavy change to -  
 B21 0.08 - 0.45 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -  
 B22k 0.45 - 0.6 m Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Distinct; Light grade of structure; Rough-ped fabric; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Nodules; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

"Hardsetting grey clay".

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#### 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 - 0.08	6B 6.9H	14B	3.72A	5.12	0.6	0.83			10.27D	
0 - 0.08	6B	14B	3.72A	5.12	0.6	0.83			10.27D	

0 - 0.1	6.9H 6.4B 7.4H	23B									
0.08 - 0.3	8.2B 9.2H	35B	2.69E	6.82	0.73	3.99		15B	14.23D	26.60	
0.08 - 0.3	8.2B 9.2H	35B	2.69E	6.82	0.73	3.99		15B	14.23D	26.60	
0.15 - 0.25	8.2B 9.3H	33B									
0.3 - 0.4	8.5B 9.5H	57B									

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>				%	
0 - 0.08 19										71.5l		9.5
0 - 0.08 19										71.5l		9.5
0 - 0.1 0.08 - 0.3 39	<2C									53l		8
0.08 - 0.3 39	<2C									53l		8
0.15 - 0.25 0.3 - 0.4												

#### 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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	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
	salts
15A1_NA for soluble	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
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC

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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
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