

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0249 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	18/07/95	<b>Elevation:</b>	310 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6251190 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	612430 Datum: AGD84	<b>Drainage:</b>	Poorly drained

#### Geology

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

#### Landform

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Pedal Hypercalcic Calcarosol		<b>Principal Profile Form:</b>	Uf6.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.			

#### Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation

#### Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subrounded, Calcrete; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Moderately moist;
		Weak consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.4 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
		ped fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft
		segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Gradual change to -
B22k	0.4 - 0.7 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
		Rough-ped fabric; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Calcrete,
		coarse fragments; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil
		matrix is Moderately calcareous; Field pH 9.5 (Raupach);

#### Morphological Notes

A1	Sticky clay - very slight dispersion.
B22k	??Duplicate--"common" carbonate "nodules" removed from segregations table

#### Observation Notes

#### Site Notes

Site gets "boggy" in low lying areas - "hardsetting grey clay" - barley grass dominated low lying area. Medic clover pasture dominant at this site.

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#### Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	7.7B 8.4H	16B	12.68E	3.63	1.09	0.13		19B	17.53D	0.68
0 - 0.1	7.7B 8.4H	16B	12.68E	3.63	1.09	0.13		19B	17.53D	0.68
0 - 0.1	7.7B 8.4H	16B	12.68E	3.63	1.09	0.13		19B	17.53D	0.68
0.1 - 0.3	8.3B 9H	20B	7.94E	8.68	0.51	0.89		19B	18.02D	4.68
0.1 - 0.3	8.3B 9H	20B	7.94E	8.68	0.51	0.89		19B	18.02D	4.68
0.1 - 0.3	8.3B 9H	20B	7.94E	8.68	0.51	0.89		19B	18.02D	4.68

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 - 0.1 29.5	<2C	1.52D						63.5I		7
0 - 0.1 29.5	<2C	1.52D						63.5I		7
0 - 0.1 29.5	<2C	1.52D						63.5I		7
0.1 - 0.3 40	3C	0.19D						56I		4
0.1 - 0.3 40	3C	0.19D						56I		4
0.1 - 0.3 40	3C	0.19D						56I		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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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 (CaCO3) - 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