

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0650 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	23/10/96	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6299070 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	639990 Datum: AGD84	<b>Drainage:</b>	Moderately well 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

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Playa plain
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<b>Morph. Type:</b>	Crest	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Dunecrest	<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
Epibasic Regolithic Hypercalcic Calcarosol	<b>Principal Profile Form:</b>	N/A
<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 0-2%, medium gravelly, 6-20mm, rounded, Calcrete; No surface coarse fragments

#### Profile Morphology

<b>A1p</b> 0 - 0.08 m structure; Sandy  fine (0-1mm)	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of (grains prominent) fabric; Dry; Firm consistence; Field pH 7 (Raupach); Common, very roots; Sharp, Smooth change to -
<b>B1k</b> 0.08 - 0.7 m structure; Sandy  (2 -6 mm), fine (0-1mm)	Yellowish brown (10YR5/4-Moist); , 0-0% ; Fine sandy light clay; Massive grade of (grains prominent) fabric; Dry; Firm consistence; Many (20 - 50 %), Calcareous, Medium Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Few, very roots; Gradual change to -
<b>B21k</b> 0.7 - 0.9 m medium clay;  10%, fine (2 -6 mm), Soft change to -	Yellowish brown (10YR5/4-Moist); Mottles, 5YR44, 2-10% , 30-mm, Faint; Sandy light Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; 2- gravelly, 2-6mm, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Medium segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear, Smooth
<b>B22k</b> 0.9 - 1.05 m structure; Sandy  Medium (2 -6	Light olive brown (2.5Y5/4-Moist); , 0-0% ; Sandy light medium clay; Massive grade of (grains prominent) fabric; Dry; Strong consistence; Common (10 - 20 %), Calcareous, mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Soil pit in Minelup/Chinocup Catchment.

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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	7B 8H	10B	4.08E	4.64	1.2	0.56		13B	10.48D	4.31
0 - 0.08	7B 8H	10B	4.08E	4.64	1.2	0.56		13B	10.48D	4.31
0 - 0.1	6.6B 7.5H	11B								
0 - 0.1	6.6B 7.5H	11B								
0.08 - 0.5	8.5B 9.4H	18B	2.8E	5.28	0.56	1.17		10B	9.81D	11.70
0.08 - 0.5	8.5B 9.4H	18B	2.8E	5.28	0.56	1.17		10B	9.81D	11.70
0.5 - 0.7	8.7B 9.7H	32B	1.71E	7.64	1.3	3.68		14B	14.33D	26.29
0.5 - 0.7	8.7B 9.7H	32B	1.71E	7.64	1.3	3.68		14B	14.33D	26.29
0.7 - 0.9	8.8B 9.9H	34B	0.72E	5.07	1.03	4.6		10B	11.42D	46.00
0.7 - 0.9	8.8B 9.9H	34B	0.72E	5.07	1.03	4.6		10B	11.42D	46.00
0.9 - 1.05	8.7B 10H	31B	0.38E	4.67	1.03	5.68		11B	11.76D	51.64
0.9 - 1.05	8.7B 10H	31B	0.38E	4.67	1.03	5.68		11B	11.76D	51.64

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 - 0.08 24.5	<2C	0.55D		130B						4.3
0 - 0.08 24.5	<2C	0.55D		130B						4.3
0 - 0.1		0.74D		160B	0.062E					
0 - 0.1		0.74D		160B	0.062E					
0.08 - 0.5 31.6	3C	0.13D		63B						2.1
0.08 - 0.5 31.6	3C	0.13D		63B						2.1
0.5 - 0.7 46.2	4C	0.09D		84B						2.7
0.5 - 0.7 46.2	4C	0.09D		84B						2.7
0.7 - 0.9 34.9	<2C	0.09D		66B						2.9
0.7 - 0.9 34.9	<2C	0.09D		66B						2.9
0.9 - 1.05 32.1	<2C	0.07D		64B						4.9
0.9 - 1.05 32.1	<2C	0.07D		64B						4.9

#### Laboratory Analyses Completed for this profile

15\_NR\_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available  
 15\_NR\_CMCR 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 soluble salts

15C1\_CEC  
15C1\_K  
soluble salts

CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts  
Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

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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
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 (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
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)