Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0327** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	02/08/95	**Elevation:**	320 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6251380 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	606565 Datum: AGD84	**Drainage:**	Poorly drained

Geology

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

Landform

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

Morph. Type:	Mid-slope	**Relief:**	5 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Hypercalcic Mesonatric Brown Sodosol **Principal Profile Form:** Db1.13
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

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 - 0.06 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Moist; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B21 0.06 - 0.25 m Strong brown (7.5YR4/6-Moist); Mechanical, 7.5YR32, 10-20% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -

B22k 0.25 - 0.4 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -

B23k 0.4 - 0.6 m Brown (7.5YR5/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 20-50%, medium gravelly, 6-20mm, subangular, Calcrete, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

B21 Cutans.
B23k Duplicated "common" carbonate "nodules" removed from segregations table

Observation Notes

Site Notes

"Hardsetting grey clay". ESP=15, just Mesonatric

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.06	5.9B 6.7H	14B	4.22A	4.56	0.61	0.65			10.04D	
0 - 0.06	5.9B 6.7H	14B	4.22A	4.56	0.61	0.65			10.04D	
0 - 0.06	5.9B 6.7H	14B	4.22A	4.56	0.61	0.65			10.04D	
0.06 - 0.25	8.3B 9.2H	31B	5.13E	9.6	0.65	2.56		17B	17.94D	15.06
0.06 - 0.25	8.3B 9.2H	31B	5.13E	9.6	0.65	2.56		17B	17.94D	15.06

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.06		1.75D							76.5I		6
17.5											
0 - 0.06		1.75D							76.5I		6
17.5											
0 - 0.06		1.75D							76.5I		6
17.5											
0.06 - 0.25	5C	0.3D							56I		5
39											
0.06 - 0.25	5C	0.3D							56I		5
39											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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

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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