

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0421 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 31/08/95
Map Ref.:
Northing/Long.: 6248450 AMG zone: 50
Easting/Lat.: 636650 Datum: AGD84
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well 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: Lower-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 5 metres
Slope Category: No Data
Aspect: 225 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification: Mesotrophic Hypernatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy4.11
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

Ap 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -
 B2t 0.1 - 0.45 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 6 (Raupach); Abrupt change to -
 B3 0.45 - 0.6 m Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR58, 2-10% , 15-30mm, Distinct; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 5.5 (Raupach);

Morphological Notes

B2t Many coarse cutans (10YR 3/1) - organic matter and sand.
 B3 Kaolinitic clay.

Observation Notes

Site Notes

Sit is similar to Tieline system except more defined drainage - site in a barley crop - "hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.1B 5.9H	33B	5.97H	2.18	0.27	0.82	0.09J		9.24D	
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0 - 0.1	5.1B 5.9H	33B	5.97H	2.18	0.27	0.82	0.09J	9.24D
0.1 - 0.3	5B 6.2H	20B	1.09H	1.91	0.28	1.38	0.17J	4.66D
0.1 - 0.3	5B 6.2H	20B	1.09H	1.91	0.28	1.38	0.17J	4.66D
0.1 - 0.3	5B 6.2H	20B	1.09H	1.91	0.28	1.38	0.17J	4.66D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1 10		2.45D						82.5I 7.5
0 - 0.1 10		2.45D						82.5I 7.5
0 - 0.1 10		2.45D						82.5I 7.5
0.1 - 0.3 34.5		0.53D						58.5I 7
0.1 - 0.3 34.5		0.53D						58.5I 7
0.1 - 0.3 34.5		0.53D						58.5I 7

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMUR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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