Project Name: **Knox Creek Plain survey (Kununurra)**
Project Code: **KNX** **Site ID:** **0136** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Noel Schoknecht
Date Desc.: 13/06/94
Map Ref.:
Northing/Long.: 8272666 AMG zone: 52
Easting/Lat.: 498422 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

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

Surface Soil Condition

Cracking

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site

No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse

Profile

A11 0 - 0.07 m Dark greyish brown (10YR4/2-Moist); Mottles, 7.5YR68, 10-20% , 0-5mm, Prominent; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; Field pH 6.9 (pH meter); Clear change to -

B1 0.07 - 0.56 m Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Strong grade of structure, 100-200 mm, Prismatic; Rough-ped fabric; Moderately moist; Strong consistence; Field pH 8.1 (pH meter); Clear change to -

B21 0.56 - 1.34 m Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 8.5 (pH meter); Gradual change to -

B22 1.34 - 2 m Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 8.1 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Site is gilgaied with surface cracks and a 5mm crust. Primary structure of layer2 - PM6ABR and it has variable depth related to the gilgai.
Common slickensides in layer3. Sampled: 0-7; 7-56; 56-96; 96-134; 134-200. PEDAL GREY VERTOSOL Gilga

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.07	6.3B 6.9H	10B	14.17A	10.34	0.77	0.22			25.5D	
0.07 - 0.56	7.4B 8.1H	16B	17.12E	10.67	0.39	0.94		28B	29.12D	3.36
0.56 - 0.96	8B 8.9H	22B	13.37E	10.71	0.38	2.86		27B	27.32D	10.59
0.96 - 1.34	8B 8.8H	61B	12.99E	12.58	0.38	4.53		30B	30.48D	15.10
1.34 - 2	8.1B 8.6H	96B	12.8E	13.15	0.33	4.52		28B	30.8D	16.14

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.07		0.63D		64B	0.038E						15.9
44.8											
0.07 - 0.56	<2C	0.26D		42B	0.018E						11.6
49.8											
0.56 - 0.96	2C	0.28D		46B	0.018E						12.7
51.9											
0.96 - 1.34	2C	0.21D		45B	0.015E						12.3
52.1											
1.34 - 2	2C	0.09D		40B	0.009E						13
48.9											

Laboratory Analyses Completed for this profile

12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
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

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5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
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_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)