Project Name: **Land Resources of the Victoria River District representative Soil Sampling 2011**
Project Code: **VRD_11** **Site ID:** **4** **Observation ID:** **1**
Agency Name: **NT Natural Resources, Environment and the Arts**

Site Information

Desc. By:		**Locality:**	
Date Desc.:	26/05/11	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	129.80186	**Runoff:**	Very slow
Easting/Lat.:	-15.900438 Datum: GDA94	**Drainage:**	No Data

Geology

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

Landform

Rel/Slope Class:	No Data	**Pattern Type:**	Alluvial plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Haplic Epipedal Brown Vertosol Non-gravelly Medium fine Very fine **Principal Profile Form:** N/A

ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.15 m Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Field pH 7.5 (pH meter);

B21 0.15 - 0.3 m Dark brown (7.5YR3/3-Moist); ; Heavy clay; Strong grade of structure; Smooth-ped fabric; Field pH 8.4 (pH meter);

B22 0.3 - 1.1 m Dark brown (7.5YR3/2-Moist); ; Heavy clay; Strong grade of structure; Smooth-ped fabric; Field pH 8 (pH meter);

B23 1.1 - 1.85 m Dark brown (7.5YR3/4-Moist); ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.1	6.1C 7.5A	0.041A	13.91H	11.51	0.8	1	0.001J			
0.1 - 0.2	6.4C 8.4A	0.079A	15.04H	11.9	0.74	1.4	0.001J			

0.2 - 0.3	6.6C 8.4A	0.089A	14.92H	11.66	0.72	1	0.001J
0.5 - 0.6	7.2C 8A	0.134A	15.36H	11.85	0.64	1	0.001J
0.8 - 0.9	7.5C 8A	0.117A	13.6H	12.09	0.61	1	0.001J
1.1 - 1.2	7.7C 8.6A	0.154A	3.53H	12.82	0.68	1	0.001J
1.4 - 1.5	8C 8.6A	0.294A	12.87H	11.74	0.64	25.1	0.001J
1.7 - 1.8	7.8C 8.6A	0.251A	12.05H	12.83	0.6	4.74	0.001J

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 - 0.1		0.55A	4J		0.11D		1.84		4.52A	30.3	19.76
45.41											
									34.82G		
0.1 - 0.2		0.34A	<2J		0.13D		1.55		3.43A	27.5	18.77
50.32											
									30.93G		
0.2 - 0.3		0.3A	<2J		0.12D		1.58		4.1A	24.9	20.73
50.28											
									29G		
0.5 - 0.6		0.29A	<2J		0.08D		1.68		5.67A	24.3	20.43
49.57											
									29.97G		
0.8 - 0.9		0.25A	<2J		0.1D		1.63		5.29A	23.2	19.61
51.91											
									28.49G		
1.1 - 1.2		0.2A	2J		0.09D		1.62		3.03A	23	21.14
52.8											
									26.03G		
1.4 - 1.5		0.15A	3J		0.1D		1.62		5.58A	23.2	22.15
49.06											
									28.78G		
1.7 - 1.8		0.12A	3J		0.11D		1.76		4.07A	24.2	22.3
49.41											
									28.27G		

Laboratory Analyses Completed for this profile

10D1	Potassium chloride - 40 sulfur (KCl-40)-S
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts

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15E1_CA	Exchangeable bases (Ca2+,Mg2+,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_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
18A1	Bicarbonate-extractable potassium
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_S	Sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm3