Project Name: **Roper River Agriculture**
Project Code: **ROPAG** **Site ID:** **1** **Observation ID:** **1**
Agency Name: **NT Natural Resources, Environment and the Arts**

Site Information

Desc. By:		**Locality:**	
Date Desc.:	29/06/10	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	133.108233	**Runoff:**	Slow
Easting/Lat.:	-14.996138 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:**	Plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0.5 %	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol Medium Non-gravelly Sandy Very deep

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1p 0 - 0.15 m Very dark grey (10YR3/1-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Field pH 8 (pH meter);

A2 0.15 - 0.26 m Dark brown (7.5YR3/4-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Field pH 8.7 (pH meter);

A3 0.26 - 0.45 m Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Field pH 8.5 (pH meter);

B1 0.45 - 0.7 m Red (10R4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 8.2 (pH meter);

B21 0.7 - 1 m Red (10R4/6-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Field pH 8.1 (pH meter);

B22 1 - 1.4 m Red (10R4/6-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Field pH 7.9 (pH meter);

B23 1.4 - 1.9 m Red (10R4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Field pH 7.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.1	7.5C 8A	0.08A	5.95H	0.66	0.28	0.02	0.001J			
0.1 - 0.2	7.6C 8.7A	0.064A	6.63H	0.67	0.2	0.04	0.001J			
0.2 - 0.3	7.7C 8.5A	0.065A	3.06H	0.45	0.19	0.09	0.001J			
0.5 - 0.6	7.6C 8.2A	0.094A	2.8H	0.79	0.25	0.23	0.001J			
0.8 - 0.9	7.1C 8.1A	0.065A	2.99H	1.11	0.26	0.16	0.001J			
1.1 - 1.2	6.7C 7.9A	0.057A	3.14H	0.55	0.22	0.2	0.001J			
1.4 - 1.5	6.8C 7.7A	0.056A	3.15H	0.4	0.24	0.18	0.001J			
1.7 - 1.8	6.8C 7.7A	0.059A	2.89H	0.54	0.23	0.12	0.001J			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis		
		Clay							CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 7.9		0.61A	45J		0.04D			0	68.5A	20.6	3
0.1 - 0.2 8.6		0.67A	12J		0.05D			0	89.1G 69.9A	18.5	2.9
0.2 - 0.3 8.8		0.28A	3J		0.02D			0	88.5G 75.2A	14	2
0.5 - 0.6 25.1		0.22A	7J		0.04D			0	89.2G 55.9A	17.1	1.9
0.8 - 0.9 40.9		0.15A	3J		0.04D			0	73G 41.3A	16.8	1
1.1 - 1.2 40.4		0.11A	2J		0.03D			1	58.1G 43.8A	13.9	2
1.4 - 1.5 40.3		0.09A	<2J		0.02D			1	57.7G 43.8A	15	1
1.7 - 1.8 39.4		0.09A	<2J		0.02D			1	58.7G 42.5A	17.2	1
									59.7G		

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
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

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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
P10_GRAV	Gravel (%)