Project Name: **Soils of the Swiftsynd Pasture Trial Sites**
Project Code: **SWIFS** **Site ID:** **21** **Observation ID:** **1**
Agency Name: **NT Natural Resources, Environment and the Arts**

Site Information

Desc. By:		**Locality:**	
Date Desc.:	18/02/09	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	133.535334	**Runoff:**	Rapid
Easting/Lat.:	-23.875262 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:	0.2 %	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
Hyperbasic Paralithic Supracalcic Calcarosol Thin Non-gravelly Loamy Very deep

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

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A12 0.03 - 0.09 m Reddish brown (5YR5/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Field pH 8.6 (pH meter);

B1k 0.09 - 0.2 m Reddish brown (5YR4/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 8.5 (pH meter);

B21k 0.2 - 0.3 m Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 8.5 (pH meter);

B22k 0.3 - 0.6 m Yellowish red (5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 8.5 (pH meter);

B32 0.8 - 1.8 m Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 9.1 (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	8.4C 8.6A	0.074A	10.44H	1.01	0.53	0.01	0J			
0.1 - 0.2	8.4C	0.078A	11.89H	1.07	0.55	0.03	0J			

	8.5A						
0.2 - 0.3	8.4C	0.074A	12.11H	1.06	0.47	0.02	0J
	8.5A						
0.5 - 0.6	8.4C	0.089A	14.16H	1.42	0.15	0.03	0J
	8.5A						
0.8 - 0.9	8.4C	0.059A	12.36H	1.81	0.14	0.05	0J
	9.1A						
1.1 - 1.2	8.6C	0.055A	11.45H	2.22	0.15	0.12	0J
	9.1A						
1.4 - 1.5	8.6C	0.07A	10.13H	3.98	0.15	0.35	0J
	9.1A						

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		0.43A	12J		0.02D			3	42.17A	33.46	10.74
13.63											
									75.63G		
0.1 - 0.2		0.28A	5J		0.03D			2	40.42A	25.71	12.97
20.9											
									66.13G		
0.2 - 0.3		0.24A	5J		0.03D			7	37.5A	28.52	11.01
22.97											
									66.02G		
0.5 - 0.6		0.08A	3J		0.02D			8	38.19A	33.29	10.83
17.68											
									71.48G		
0.8 - 0.9		0.1A	3J		0.04D			4	44.94A	28.54	8.86
17.66											
									73.48G		
1.1 - 1.2		0.15A	2J		0.04D			4	50.71A	26.86	7.82
14.61											
									77.57G		
1.4 - 1.5		0.09A	2J		0.03D			2	39A	38.66	9.74
12.61											
									77.65G		

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

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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
P10_GRAV	Gravel (%)