Project Name: **Soils of the Swiftsynd Pasture Trial Sites**
Project Code: **SWIFS** **Site ID:** **26** **Observation ID:** **1**
Agency Name: **NT Natural Resources, Environment and the Arts**

Site Information

Desc. By:		**Locality:**	
Date Desc.:	22/02/09	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	134.077556	**Runoff:**	Slow
Easting/Lat.:	-24.445008 Datum: GDA94	**Drainage:**	No Data

Geology

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

Landform

Rel/Slope Class:	No Data	**Pattern Type:**	Plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:	**Mapping Unit:**	N/A
Hyperbasic Petroclcic Lithocalcic Calcarosol Thin Moderately gravelly Clay-loamy Moderately deep	**Principal Profile Form:**	N/A
ASC Confidence:	**Great Soil Group:**	N/A
Analytical data are incomplete but reasonable confidence.		

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1   0 - 0.06 m   Yellowish red (5YR4/6-Moist); ; Clay loam; Weak grade of structure; Rough-ped fabric; Field pH 7.9 (pH

meter);

B1k   0.06 - 0.18 m   Red (2.5YR4/8-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Field pH 7.8 (pH meter);

B2k   0.18 - 0.3 m   Yellowish red (5YR5/8-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Field pH 7.8 (pH

meter);

B32k   0.45 - 0.6 m   Yellowish red (5YR5/8-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Field pH 8.2 (pH

meter);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable Acidity | CEC | ECEC | ESP |
| | | | Ca | Mg | K | Na | | | | |
m		dS/m				Cmol (+)/kg				%
0 - 0.1	8.5C 7.9A	0.063A	10.71H	1.03	0.97	0.03	0J			
0.1 - 0.2	8.4C 7.8A	0.075A	11.13H	1.09	0.79	0.03	0J			
0.2 - 0.3	7.7C 7.8A	0.12A	10.89H	1.27	0.68	0.11	0J			
0.5 - 0.6	7.7C	0.106A	8.81H	1.11	0.23	0.18	0J			

8.2A

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis		
m	%	%	mg/kg	%	%	%	Mg/m3		CS	FS	Silt %
0 - 0.1 15.82		0.29A	11J		0.01D			13	30.49A	38.82	14.87
									69.31G		
0.1 - 0.2 16.54		0.28A	4J		0.02D			24	22.18A	45.66	15.62
									67.84G		
0.2 - 0.3 18.65		0.28A	4J		0.02D			37	19.88A	40.8	20.67
									60.68G		
0.5 - 0.6 10.75		0.21A	3J		0.01D			45	31.8A	20.17	37.29
									51.96G		

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
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 (%)