Project Name: **Soil Carbon Paired Sites project**
Project Code: **SC2** **Site ID:** **NHU2** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Ted (E.A.) Griffin	**Locality:**	
Date Desc.:	24/10/00	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6891199 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	239234 Datum: AGD84	**Drainage:**	Rapidly drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	90 degrees

Surface Soil Condition Loose

Erosion (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Basic Regolithic Yellow-Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance No effective disturbance. Natural

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); ; Sand; Single grain grade of structure; Dry; Very weak consistence; Clear change to -

A21 0.1 - 0.3 m Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Dry; Very weak consistence; Diffuse change to -

A22 0.3 - 1 m Brownish yellow (10YR6/6-Moist); ; Clayey sand; Single grain grade of structure; Dry; Weak consistence; Clear change to -

B2 1 - 1.6 m Brownish yellow (10YR6/8-Moist); ; Clayey sand; Massive grade of structure; Moist; Very firm consistence;

Morphological Notes

Observation Notes

Site Notes

MICRORELIEF: Small pedestals. Site photo type: C. From 22 to 26 . Burnt 5 - 7 years ago

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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	4.7B 6.1H	3B	1.07H	0.29	0.07	0.05	0.06J		1.48D	
0 - 0.1	4.7B 6.1H	3B	1.07H	0.29	0.07	0.05	0.06J		1.48D	
0 - 0.1	4.7B 6.1H	3B	1.07H	0.29	0.07	0.05	0.06J		1.48D	
0 - 0.1	4.7B	3B	1.07H	0.29	0.07	0.05	0.06J		1.48D	

	6.1H							
0 - 0.1	4.7B 6.1H	3B	1.07H	0.29	0.07	0.05	0.06J	1.48D
0 - 0.1	4.7B 6.1H	3B	1.07H	0.29	0.07	0.05	0.06J	1.48D
0.1 - 0.2	4.9B 5.8H	3B	0.7H	0.22	0.04	0.03	0.03J	0.99D
0.1 - 0.2	4.9B 5.8H	3B	0.7H	0.22	0.04	0.03	0.03J	0.99D
0.1 - 0.2	4.9B 5.8H	3B	0.7H	0.22	0.04	0.03	0.03J	0.99D
0.1 - 0.2	4.9B 5.8H	3B	0.7H	0.22	0.04	0.03	0.03J	0.99D
0.1 - 0.2	4.9B 5.8H	3B	0.7H	0.22	0.04	0.03	0.03J	0.99D
0.1 - 0.2	4.9B 5.8H	3B	0.7H	0.22	0.04	0.03	0.03J	0.99D
0.2 - 0.3	4.8B 5.6H	3B	0.52H	0.2	0.03	0.02	0.03J	0.77D
0.2 - 0.3	4.8B 5.6H	3B	0.52H	0.2	0.03	0.02	0.03J	0.77D
0.2 - 0.3	4.8B 5.6H	3B	0.52H	0.2	0.03	0.02	0.03J	0.77D
0.2 - 0.3	4.8B 5.6H	3B	0.52H	0.2	0.03	0.02	0.03J	0.77D
0.2 - 0.3	4.8B 5.6H	3B	0.52H	0.2	0.03	0.02	0.03J	0.77D
0.2 - 0.3	4.8B 5.6H	3B	0.52H	0.2	0.03	0.02	0.03J	0.77D
0.3 - 0.5	4.9B 5.4H	2B	0.21H	0.12	0.02	0.02	<0.02J	0.37D
0.3 - 0.5	4.9B 5.4H	2B	0.21H	0.12	0.02	0.02	<0.02J	0.37D
0.3 - 0.5	4.9B 5.4H	2B	0.21H	0.12	0.02	0.02	<0.02J	0.37D
0.3 - 0.5	4.9B 5.4H	2B	0.21H	0.12	0.02	0.02	<0.02J	0.37D
0.3 - 0.5	4.9B 5.4H	2B	0.21H	0.12	0.02	0.02	<0.02J	0.37D
0.35 - 0.45								
0.5 - 0.8	5.3B 5.9H	2B	0.2H	0.12	0.02	0.02	<0.02J	0.36D
0.5 - 0.8	5.3B 5.9H	2B	0.2H	0.12	0.02	0.02	<0.02J	0.36D

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0.5 - 0.8	5.3B 5.9H	2B	0.2H	0.12	0.02	0.02	<0.02J	0.36D
0.5 - 0.8	5.3B 5.9H	2B	0.2H	0.12	0.02	0.02	<0.02J	0.36D
0.6 - 0.7								
0.8 - 1.1	5.9B 6.9H	1B	0.36H	0.24	0.03	0.02	<0.02J	0.65D
0.8 - 1.1	5.9B 6.9H	1B	0.36H	0.24	0.03	0.02	<0.02J	0.65D
0.8 - 1.1	5.9B 6.9H	1B	0.36H	0.24	0.03	0.02	<0.02J	0.65D
0.9 - 1								
1.1 - 1.4	5.6B 6.6H	2B	0.6A	0.6	0.08	0.05		1.33D
1.1 - 1.4	5.6B 6.6H	2B	0.6A	0.6	0.08	0.05		1.33D
1.1 - 1.4	5.6B 6.6H	2B	0.6A	0.6	0.08	0.05		1.33D
1.2 - 1.3								

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	GV	Particle CS	Size FS %	Analysis Silt
0 - 0.1 1.8		0.57D 7.15D		14F 44F	0.023B 0.166B	0.022B					1.3
0 - 0.1 1.8		0.57D 7.15D		14F 44F	0.023B 0.166B	0.022B					1.3
0 - 0.1 1.8		0.57D 7.15D		14F 44F	0.023B 0.166B	0.022B					1.3
0 - 0.1 1.8		0.57D 7.15D		14F 44F	0.023B 0.166B	0.022B					1.3
0 - 0.1 1.8		0.57D 7.15D		14F 44F	0.023B 0.166B	0.022B					1.3
0 - 0.1 1.8		0.57D 7.15D		14F 44F	0.023B 0.166B	0.022B					1.3
0.1 - 0.2 2.4		0.32D 4.54D		12F 31F	0.014B 0.093B	0.028B					1.3
0.1 - 0.2 2.4		0.32D 4.54D		12F 31F	0.014B 0.093B	0.028B					1.3
0.1 - 0.2 2.4		0.32D 4.54D		12F 31F	0.014B 0.093B	0.028B					1.3
0.1 - 0.2 2.4		0.32D 4.54D		12F 31F	0.014B 0.093B	0.028B					1.3
0.1 - 0.2 2.4		0.32D 4.54D		12F 31F	0.014B 0.093B	0.028B					1.3
0.1 - 0.2 2.4		0.32D 4.54D		12F 31F	0.014B 0.093B	0.028B					1.3
0.2 - 0.3 2		0.27D 9.5D		15F 41F	0.009B 0.147B	0.016B					1.4
0.2 - 0.3 2		0.27D 9.5D		15F 41F	0.009B 0.147B	0.016B					1.4

0.2 - 0.3	0.27D	15F	0.009B	0.016B	1.4
2					
	9.5D	41F	0.147B		
0.2 - 0.3	0.27D	15F	0.009B	0.016B	1.4
2					
	9.5D	41F	0.147B		

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0.2 - 0.3	0.27D	15F	0.009B	0.016B	1.4
2					
	9.5D	41F	0.147B		
0.2 - 0.3	0.27D	15F	0.009B	0.016B	1.4
2					
	9.5D	41F	0.147B		
0.3 - 0.5	14.4D	14F	0.005B	0.022B	1.3
1.9					
	0.11D	34F	0.099B		
0.3 - 0.5	14.4D	14F	0.005B	0.022B	1.3
1.9					
	0.11D	34F	0.099B		
0.3 - 0.5	14.4D	14F	0.005B	0.022B	1.3
1.9					
	0.11D	34F	0.099B		
0.3 - 0.5	14.4D	14F	0.005B	0.022B	1.3
1.9					
	0.11D	34F	0.099B		
0.3 - 0.5	14.4D	14F	0.005B	0.022B	1.3
1.9					
	0.11D	34F	0.099B		
0.35 - 0.45					
0.5 - 0.8	0.08D	13F	0.005B	0.025B	1.1
2.6					
	5.87D				
0.5 - 0.8	0.08D	13F	0.005B	0.025B	1.1
2.6					
	5.87D				
0.5 - 0.8	0.08D	13F	0.005B	0.025B	1.1
2.6					
	5.87D				
0.5 - 0.8	0.08D	13F	0.005B	0.025B	1.1
2.6					
	5.87D				
0.6 - 0.7					
0.8 - 1.1	0.09D	18F	0.005B	0.025B	1.2
5					
0.8 - 1.1	0.09D	18F	0.005B	0.025B	1.2
5					
0.8 - 1.1	0.09D	18F	0.005B	0.025B	1.2
5					
0.9 - 1					
1.1 - 1.4	0.11D	24F	0.008B	0.044B	1.1
16.7					
1.1 - 1.4	0.11D	24F	0.008B	0.044B	1.1
16.7					
1.1 - 1.4	0.11D	24F	0.008B	0.044B	1.1
16.7					
1.2 - 1.3					

Laboratory Analyses Completed for this profile

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

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_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no 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
17A_NR	Total element - K (%) - Not recorded
2A1	Air-dry moisture content

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3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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_gt2MI	> 2mm particle size analysis mineral fragments, (method not recorded)
P10_gt2OM	> 2mm particle size analysis organic fragments, (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)
P3A1_C4	Bulk density - core, 100mm by 81mm dia
TE_NR_AL	Total Element Al - Not recorded
TE_NR_AL2O	Total Element Al2O3 - Not recorded
TE_NR_FE20	Total Element Fe2O - Not recorded