Project Name: **Soil Carbon Paired Sites project**
Project Code: **SC2** **Site ID:** **COS1** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Bill Verboom	**Locality:**	
Date Desc.:	22/02/01	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6276717 AMG zone: 51	**Runoff:**	No Data
Easting/Lat.:	481096 Datum: AGD84	**Drainage:**	Well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	**Relief:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	315 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
Ferric Eutrophic Yellow Chromosol
ASC Confidence:
Confidence level not specified

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

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

No surface coarse fragments; No surface coarse fragments

Profile Morphology

Ap 0 - 0.1 m Dark grey (10YR4/1-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Gradual change to -

A21 0.1 - 0.2 m Very pale brown (10YR7/4-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Diffuse change to -

A22 0.2 - 0.4 m Light yellowish brown (10YR6/4-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Clear change to -

A3 0.4 - 0.6 m Light yellowish brown (10YR6/4-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Clear change to -

B2 0.6 - 1 m Light grey (10YR7/2-Moist); , 7.5YR58, 20-50% , 15-30mm, Distinct; Light clay; Strong grade of structure, Angular blocky; Moderately moist; Very firm consistence;

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	4.6B 5.4H	6B	1.87H	0.45	0.06	0.04	0.1J		2.42D	
0 - 0.1	4.6B 5.4H	6B	1.87H	0.45	0.06	0.04	0.1J		2.42D	
0 - 0.1	4.6B 5.4H	6B	1.87H	0.45	0.06	0.04	0.1J		2.42D	
0 - 0.1	4.6B 5.4H	6B	1.87H	0.45	0.06	0.04	0.1J		2.42D	
0 - 0.1	4.6B 5.4H	6B	1.87H	0.45	0.06	0.04	0.1J		2.42D	
0 - 0.1	4.6B 5.4H	6B	1.87H	0.45	0.06	0.04	0.1J		2.42D	
0.1 - 0.2	5B 5.8H	2B	0.63H	0.15	0.03	0.02	0.14J		0.83D	
0.1 - 0.2	5B 5.8H	2B	0.63H	0.15	0.03	0.02	0.14J		0.83D	
0.1 - 0.2	5B 5.8H	2B	0.63H	0.15	0.03	0.02	0.14J		0.83D	
0.1 - 0.2	5B 5.8H	2B	0.63H	0.15	0.03	0.02	0.14J		0.83D	
0.2 - 0.3	4.9B 5.9H	1B	0.4H	0.09	0.02	0.02	0.05J		0.53D	
0.2 - 0.3	4.9B 5.9H	1B	0.4H	0.09	0.02	0.02	0.05J		0.53D	
0.2 - 0.3	4.9B 5.9H	1B	0.4H	0.09	0.02	0.02	0.05J		0.53D	
0.2 - 0.3	4.9B 5.9H	1B	0.4H	0.09	0.02	0.02	0.05J		0.53D	
0.3 - 0.4										
0.3 - 0.4										
0.3 - 0.4										
0.4 - 0.6	5.3B 6.4H	2B	0.97H	0.49	0.07	0.07	0.04J		1.6D	
0.4 - 0.6	5.3B 6.4H	2B	0.97H	0.49	0.07	0.07	0.04J		1.6D	
0.4 - 0.6	5.3B 6.4H	2B	0.97H	0.49	0.07	0.07	0.04J		1.6D	
0.45 - 0.55										
0.6 - 0.9	5.9B 7H	10B	2.18A	5.02	0.49	1.3			8.99D	
0.6 - 0.9	5.9B 7H	10B	2.18A	5.02	0.49	1.3			8.99D	
0.6 - 0.9	5.9B 7H	10B	2.18A	5.02	0.49	1.3			8.99D	
0.7 - 0.8										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.94D		42F	0.049B	0.03B			96.5I		2	1.5

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	31.7D	460F	1B			
0 - 0.1	0.94D	42F	0.049B	0.03B	96.5I	2
1.5						
	31.7D	460F	1B			
0 - 0.1	0.94D	42F	0.049B	0.03B	96.5I	2
1.5						
	31.7D	460F	1B			
0 - 0.1	0.94D	42F	0.049B	0.03B	96.5I	2
1.5						
	31.7D	460F	1B			
0 - 0.1	0.94D	42F	0.049B	0.03B	96.5I	2
1.5						
	31.7D	460F	1B			
0 - 0.1	0.94D	42F	0.049B	0.03B	96.5I	2
1.5						
	31.7D	460F	1B			
0.1 - 0.2	0.39D	23F	0.017B	0.04B	97I	1.5
1.5						
0.1 - 0.2	0.39D	23F	0.017B	0.04B	97I	1.5
1.5						
0.1 - 0.2	0.39D	23F	0.017B	0.04B	97I	1.5
1.5						
0.1 - 0.2	0.39D	23F	0.017B	0.04B	97I	1.5
1.5						
0.2 - 0.3	0.19D	17F	0.009B	0.04B	97I	1
2						
0.2 - 0.3	0.19D	17F	0.009B	0.04B	97I	1
2						
0.2 - 0.3	0.19D	17F	0.009B	0.04B	97I	1
2						
0.2 - 0.3	0.19D	17F	0.009B	0.04B	97I	1
2						
0.3 - 0.4						
0.3 - 0.4						
0.3 - 0.4						
0.4 - 0.6	0.34D	17F	0.015B	0.06B		
0.4 - 0.6	0.34D	17F	0.015B	0.06B		
0.4 - 0.6	0.34D	17F	0.015B	0.06B		
0.45 - 0.55						
0.6 - 0.9	0.14D	26F	0.008B	0.34B		
0.6 - 0.9	0.14D	26F	0.008B	0.34B		
0.6 - 0.9	0.14D	26F	0.008B	0.34B		
0.7 - 0.8						

Laboratory Analyses Completed for this profile

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
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

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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_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_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
P3A1_C4	Bulk density - core, 100mm by 81mm dia
P3A1_e	Bulk density - estimate from related samples
TE_NR_AL	Total Element Al - Not recorded
TE_NR_AL2O	Total Element Al2O3 - Not recorded
TE_NR_FE20	Total Element Fe2O - Not recorded