

**Project Name:** Soil Carbon Paired Sites project  
**Project Code:** SC2                   **Site ID:** COL1                   **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Bill Verboom	<b>Locality:</b>	
<b>Date Desc.:</b>	22/02/01	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6276797 AMG zone: 51	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	480883 Datum: AGD84	<b>Drainage:</b>	Well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Landform

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	225 degrees

#### Surface Soil Condition

Loose  
**Erosion** (wind); (scald) (sheet) (rill) (gully)

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Ferric Eutrophic Yellow Chromosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A

Confidence level not specified

#### Site Disturbance

Cultivation. Rainfed

#### Vegetation

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

#### Profile Morphology

Ap	0 - 0.1 m prominent)	Dark grey (10YR4/1-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains fabric; Moderately moist; Weak consistence; Gradual change to -
A2	0.1 - 0.2 m (grains	Very pale brown (10YR7/4-Moist); ; Fine sand; Single grain grade of structure; Sandy prominent) fabric; Moist; Weak consistence; Clear change to -
A3	0.2 - 0.4 m (grains	Very pale brown (10YR7/4-Moist); ; Fine sand; Single grain grade of structure; Sandy prominent) fabric; Moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, coarse fragments; Clear change to -
B2	0.4 - 0.7 m Strong grade of 20mm, subrounded,	Brownish yellow (10YR6/8-Moist); , 5YR58, 20-50% , 15-30mm, Prominent; Light clay; structure, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6- Ferricrete, coarse fragments; Diffuse change to -
C	0.7 - 1.3 m grade of	Light grey (10YR7/2-Moist); , 10YR75, 10-20% , 15-30mm, Prominent; Light clay; Strong structure, Angular blocky; Moist; Very firm consistence; 0-2%, Ferricrete, coarse fragments;

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0 - 0.1 5.4H	4.4B 5.4H	4B	1.45H	0.29	0.07	0.03	0.11J		1.84D	
0.1 - 0.2 5.2H	4.2B 5.2H	2B	0.4H	0.1	0.05	0.02	0.17J		0.57D	
0.1 - 0.2 5.2H	4.2B 5.2H	2B	0.4H	0.1	0.05	0.02	0.17J		0.57D	
0.1 - 0.2 5.2H	4.2B 5.2H	2B	0.4H	0.1	0.05	0.02	0.17J		0.57D	
0.2 - 0.3 5.2H	4.3B 5.2H	2B	0.22H	0.06	0.04	<0.02	0.14J		0.33D	
0.2 - 0.3 5.2H	4.3B 5.2H	2B	0.22H	0.06	0.04	<0.02	0.14J		0.33D	
0.2 - 0.3 5.2H	4.3B 5.2H	2B	0.22H	0.06	0.04	<0.02	0.14J		0.33D	
0.2 - 0.3 5.2H	4.3B 5.2H	2B	0.22H	0.06	0.04	<0.02	0.14J		0.33D	
0.2 - 0.3 5.2H	4.3B 5.2H	2B	0.22H	0.06	0.04	<0.02	0.14J		0.33D	
0.2 - 0.3 5.2H	4.3B 5.2H	2B	0.22H	0.06	0.04	<0.02	0.14J		0.33D	
0.3 - 0.4 5.8H	4.5B 5.8H	1B	0.36H	0.1	0.06	0.02	0.16J		0.54D	
0.3 - 0.4 5.8H	4.5B 5.8H	1B	0.36H	0.1	0.06	0.02	0.16J		0.54D	
0.3 - 0.4 5.8H	4.5B 5.8H	1B	0.36H	0.1	0.06	0.02	0.16J		0.54D	
0.3 - 0.4 5.8H	4.5B 5.8H	1B	0.36H	0.1	0.06	0.02	0.16J		0.54D	
0.3 - 0.4 5.8H	4.5B 5.8H	1B	0.36H	0.1	0.06	0.02	0.16J		0.54D	
0.4 - 0.7 6.8H	5.9B 6.8H	5B	3.67A	4.15	0.84	0.4			9.06D	
0.4 - 0.7 6.8H	5.9B 6.8H	5B	3.67A	4.15	0.84	0.4			9.06D	
0.4 - 0.7 6.8H	5.9B 6.8H	5B	3.67A	4.15	0.84	0.4			9.06D	

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0.4 - 0.7	5.9B 6.8H	5B	3.67A	4.15	0.84	0.4		9.06D
0.4 - 0.7	5.9B 6.8H	5B	3.67A	4.15	0.84	0.4		9.06D
0.5 - 0.6								
0.7 - 1	6.1B 7.1H	4B	3.43A	4.08	0.87	0.5		8.88D
0.7 - 1	6.1B 7.1H	4B	3.43A	4.08	0.87	0.5		8.88D
0.7 - 1	6.1B 7.1H	4B	3.43A	4.08	0.87	0.5		8.88D
0.7 - 1	6.1B 7.1H	4B	3.43A	4.08	0.87	0.5		8.88D
0.7 - 1	6.1B 7.1H	4B	3.43A	4.08	0.87	0.5		8.88D
0.8 - 0.9								

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 1.5		0.94D		56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0 - 0.1 1.5		18.7D 0.94D		740F 56F	0.056B	0.04B			97.5I		1	
0.1 - 0.2 2.5		0.35D		24F	0.016B	0.05B			96.5I		1	
0.1 - 0.2 2.5		0.35D		24F	0.016B	0.05B			96.5I		1	
0.1 - 0.2 2.5		0.35D		24F	0.016B	0.05B			96.5I		1	
0.1 - 0.2 2.5		0.35D		24F	0.016B	0.05B			96.5I		1	
0.2 - 0.3 1.5		0.17D		21F	0.008B	0.05B			97I		1.5	
0.2 - 0.3 1.5		0.27D 0.17D		110F 21F	0.014B 0.008B	0.32B 0.05B			97I		1.5	
0.2 - 0.3 1.5		0.27D 0.17D		110F 21F	0.014B 0.008B	0.32B 0.05B			97I		1.5	
0.2 - 0.3 1.5		0.27D 0.17D		110F 21F	0.014B 0.008B	0.32B 0.05B			97I		1.5	
0.2 - 0.3 1.5		0.27D 0.17D		110F 21F	0.014B 0.008B	0.32B 0.05B			97I		1.5	
0.3 - 0.4		0.27D 0.23D		110F 22F	0.014B 0.013B	0.32B 0.05B			96.5I		1	

2.5						
0.3 - 0.4	0.06D	46F	<0.005B	0.41B		
2.5	0.23D	22F	0.013B	0.05B	96.5I	1
0.3 - 0.4	0.06D	46F	<0.005B	0.41B		
2.5	0.23D	22F	0.013B	0.05B	96.5I	1
0.3 - 0.4	0.06D	46F	<0.005B	0.41B		
2.5	0.23D	22F	0.013B	0.05B	96.5I	1
	0.06D	46F	<0.005B	0.41B		

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0.3 - 0.4 2.5	0.23D	22F	0.013B	0.05B	96.5I 1
0.3 - 0.4 2.5	0.06D 0.23D	46F 22F	<0.005B 0.013B	0.41B 0.05B	96.5I 1
0.4 - 0.7 46.5	0.06D 0.18D	46F 29F	<0.005B 0.013B	0.41B 0.52B	50.5I 3
0.4 - 0.7 46.5	0.2D 0.18D	35F 29F	0.016B 0.013B	0.84B 0.52B	50.5I 3
0.4 - 0.7 46.5	0.2D 0.18D	35F 29F	0.016B 0.013B	0.84B 0.52B	50.5I 3
0.4 - 0.7 46.5	0.2D 0.18D	35F 29F	0.016B 0.013B	0.84B 0.52B	50.5I 3
0.5 - 0.6 0.7 - 1 39.5	0.09D	27F	0.007B	0.52B	57I 3.5
0.7 - 1 39.5	0.08D 0.09D	38F 27F	0.005B 0.007B	0.69B 0.52B	57I 3.5
0.7 - 1 39.5	0.08D 0.09D	38F 27F	0.005B 0.007B	0.69B 0.52B	57I 3.5
0.7 - 1 39.5	0.08D 0.09D	38F 27F	0.005B 0.007B	0.69B 0.52B	57I 3.5
0.7 - 1 39.5	0.08D 0.09D	38F 27F	0.005B 0.007B	0.69B 0.52B	57I 3.5
0.8 - 0.9	0.08D	38F	0.005B	0.69B	

#### Laboratory Analyses Completed for this profile

12_NR_FE	Total element - Fe(%) - Not recorded
15_NR_CM <sub>R</sub>	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL 15E1_CA salts	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES 15L1_a Sum of Cations	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn <sup>2+</sup> ) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
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

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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 Al<sub>2</sub>O<sub>3</sub> - Not recorded  
TE\_NR\_FE2O                Total Element Fe<sub>2</sub>O - Not recorded