Project Name: **Soil Carbon Paired Sites project**
Project Code: **SC2** **Site ID:** **WHS2** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Brendan Nicholas	**Locality:**	
Date Desc.:	21/02/01	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6300557 AMG zone: 51	**Runoff:**	No Data
Easting/Lat.:	415022 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

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

Landform

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	<1 %	**Aspect:**	270 degrees

Surface Soil Condition

Soft

Erosion

(wind); (scald) (sheet) (rill) (gully) (tunnel)

Soil Classification

Australian Soil Classification:
Hypercalcic Subnatric Grey Sodosol

ASC Confidence:
All necessary analytical data are available.

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

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

0-2%, medium gravelly, 6-20mm, subangular, Silcrete; No surface coarse fragments

Profile Morphology

Ap 0 - 0.1 m Dark grey (10YR4/1-Moist); ; Fine sand; Weak grade of structure, 5-10 mm, Platy; Dry; Weak consistence; Clear, Smooth change to -

A2 0.1 - 0.2 m Dark grey (10YR4/1-Moist); ; Fine sandy clay loam; Strong grade of structure, 100-200 mm, Columnar; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Clear, Smooth change to -

B1 0.2 - 0.3 m Light brownish grey (2.5Y6/2-Moist); , 10YR73; Fine sandy clay loam; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Strong consistence; 10-20%, medium gravelly, 6-20mm, Silcrete, coarse fragments; Gradual, Smooth change to -

B2 0.3 - 0.7 m Pale red (2.5YR6/2-Moist); , 5YR66; Light clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, Silcrete, coarse fragments; Diffuse change to -

BC 0.7 - 1.3 m Light brownish grey (2.5Y6/2-Moist); , 5YR66; Light clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Strong consistence;

Morphological Notes

Observation Notes

Site Notes

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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	5B 6H	12B	2.14H	0.66	0.28	0.51	0.1J		3.59D	
0 - 0.1	5B 6H	12B	2.14H	0.66	0.28	0.51	0.1J		3.59D	
0 - 0.1	5B 6H	12B	2.14H	0.66	0.28	0.51	0.1J		3.59D	
0 - 0.1	5B 6H	12B	2.14H	0.66	0.28	0.51	0.1J		3.59D	
0 - 0.1	5B 6H	12B	2.14H	0.66	0.28	0.51	0.1J		3.59D	
0.1 - 0.2	6.8B 8.1H	19B	2.22E	3.03	0.6	2.58		11B	8.43D	23.45
0.1 - 0.2	6.8B 8.1H	19B	2.22E	3.03	0.6	2.58		11B	8.43D	23.45
0.1 - 0.2	6.8B 8.1H	19B	2.22E	3.03	0.6	2.58		11B	8.43D	23.45
0.1 - 0.2	6.8B 8.1H	19B	2.22E	3.03	0.6	2.58		11B	8.43D	23.45
0.2 - 0.3	7.8B 9H	34B	2.31E	5.25	1.73	5.2		19B	14.49D	27.37
0.2 - 0.3	7.8B 9H	34B	2.31E	5.25	1.73	5.2		19B	14.49D	27.37
0.2 - 0.3	7.8B 9H	34B	2.31E	5.25	1.73	5.2		19B	14.49D	27.37
0.2 - 0.3	7.8B 9H	34B	2.31E	5.25	1.73	5.2		19B	14.49D	27.37
0.3 - 0.7	8.6B 9.9H	56B	2.34E	5.14	1.73	5.14		16B	14.35D	32.13
0.3 - 0.7	8.6B 9.9H	56B	2.34E	5.14	1.73	5.14		16B	14.35D	32.13
0.3 - 0.7	8.6B 9.9H	56B	2.34E	5.14	1.73	5.14		16B	14.35D	32.13
0.5 - 0.6										
0.7 - 1	8.7B 9.7H	75B	1.76E	5.55	2.23	7.33		20B	16.87D	36.65
0.7 - 1	8.7B 9.7H	75B	1.76E	5.55	2.23	7.33		20B	16.87D	36.65
0.7 - 1	8.7B 9.7H	75B	1.76E	5.55	2.23	7.33		20B	16.87D	36.65
0.8 - 0.9										

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis	
		C Clay	P	P	N	K	Density	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 4.7	<2C	0.97D 23.4D		88F	0.056B	0.2B					2.2
0 - 0.1 4.7	<2C	0.97D 23.4D		88F	0.056B	0.2B					2.2
0 - 0.1 4.7	<2C	0.97D 23.4D		88F	0.056B	0.2B					2.2

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0 - 0.1	<2C	0.97D	88F	0.056B	0.2B		2.2
4.7							
		23.4D					
0 - 0.1	<2C	0.97D	88F	0.056B	0.2B		2.2
4.7							
		23.4D					
0.1 - 0.2	<2C	0.44D	24F	0.023B	0.44B		2.5
21.5							
0.1 - 0.2	<2C	0.44D	24F	0.023B	0.44B		2.5
21.5							
0.1 - 0.2	<2C	0.44D	24F	0.023B	0.44B		2.5
21.5							
0.1 - 0.2	<2C	0.44D	24F	0.023B	0.44B		2.5
21.5							
0.2 - 0.3	<2C	0.19D	20F	0.018B	0.8B		1.8
38.3							
0.2 - 0.3	<2C	0.19D	20F	0.018B	0.8B		1.8
38.3							
0.2 - 0.3	<2C	0.19D	20F	0.018B	0.8B		1.8
38.3							
0.2 - 0.3	<2C	0.19D	20F	0.018B	0.8B		1.8
38.3							
0.3 - 0.7	11C	0.11D	19F	0.011B	0.85B		6.2
31.4							
0.3 - 0.7	11C	0.11D	19F	0.011B	0.85B		6.2
31.4							
0.3 - 0.7	11C	0.11D	19F	0.011B	0.85B		6.2
31.4							
0.5 - 0.6							
0.7 - 1	5.4C	0.06D	17F	0.007B	1.02B		3.5
44.5							
0.7 - 1	5.4C	0.06D	17F	0.007B	1.02B		3.5
44.5							
0.7 - 1	5.4C	0.06D	17F	0.007B	1.02B		3.5
44.5							
0.8 - 0.9							

Laboratory Analyses Completed for this profile

14_NR_S	Saturation extract - Sulphur
14B1	Electrical conductivity/SE
14C1	pH/SE
14H1_CA	Soluble bases/SE (Ca,Mg,K,Na)
14H1_K	Soluble bases/SE (Ca,Mg,K,Na)
14H1_MG	Soluble bases/SE (Ca,Mg,K,Na)
14H1_NA	Soluble bases/SE (Ca,Mg,K,Na)
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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
2D1	Moisture content - approximate saturation paste
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method

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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