Project Name: **Corrigin land resources survey**
Project Code: **COR** **Site ID:** **0182** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Bill Verboom	**Locality:**	
Date Desc.:	11/06/96	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6416212 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	622297 Datum: AGD84	**Drainage:**	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Peneplain
Morph. Type:	Open depression (vale)	**Relief:**	60 metres
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	135 degrees

Surface Soil Condition Firm

Erosion:

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified

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

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subangular, Quartz; 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone; No surface coarse fragments

Profile

A1 0 - 0.08 m Reddish brown (5YR4/4-Moist); , 0-0% ; Fine sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Soil matrix is Slightly calcareous; ManyClear, Smooth change to -

B1 0.08 - 0.25 m Red (2.5YR4/6-Moist); , 0-0% ; Fine sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Soil matrix is Slightly calcareous; FewClear, Smooth change to -

B21k 0.25 - 0.48 m Red (2.5YR4/6-Moist); , 0-0% ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Few (2 - 10 %), Calcareous, , Concretions; Soil matrix is Slightly calcareous; Diffuse, Smooth change to -

B22 0.48 - 0.98 m Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Moderately calcareous; Diffuse, Smooth change to -

B23 0.98 - 1.2 m Red (2.5YR5/6-Moist); , 0-0% ; Medium clay; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Soil matrix is Slightly calcareous;

Morphological Notes

A1 Evidence of surface sealing.

B21k	CaCO3 segs (soft) = 25%. Clayskins evident.
B22	Breaks to AB micro-aggregates
B23	CaCO3 largely absent. Clayskins evident.

Observation Notes

Site Notes

Mid-slope of long slope (1200m), in a depressional area.

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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 - 0.08	5.8B	15B	6.69A	4.06	0.99	0.61		16C	12.35D	4.31
	6.5H		6.5F	3.8	0.72	0.69			11.71D	
	5.9J									
0 - 0.08	5.8B	15B	6.69A	4.06	0.99	0.61		16C	12.35D	4.31
	6.5H		6.5F	3.8	0.72	0.69			11.71D	
	5.9J									
0 - 0.08	5.8B	15B	6.69A	4.06	0.99	0.61		16C	12.35D	4.31
	6.5H		6.5F	3.8	0.72	0.69			11.71D	
	5.9J									
0 - 0.04										
0.1 - 0.2	7.2B	20B	6.13E	7.74	1.04	3.18		21B	18.09D	15.14
	8.3H		6.7F	8	0.83	3.52		21.7C	19.05D	16.22
	6.9J									
0.1 - 0.2	7.2B	20B	6.13E	7.74	1.04	3.18		21B	18.09D	15.14
	8.3H		6.7F	8	0.83	3.52		21.7C	19.05D	16.22
	6.9J									
0.1 - 0.2	7.2B	20B	6.13E	7.74	1.04	3.18		21B	18.09D	15.14
	8.3H		6.7F	8	0.83	3.52		21.7C	19.05D	16.22
	6.9J									
0.1 - 0.14										
0.3 - 0.4	8B	39B	5.7E	7.41	1.03	3.2		21B	17.34D	15.24
	8.9H		13.7F	9.1	0.81	4.15		19.9C	27.76D	20.85
	7.3J									
0.3 - 0.4	8B	39B	5.7E	7.41	1.03	3.2		21B	17.34D	15.24
	8.9H		13.7F	9.1	0.81	4.15		19.9C	27.76D	20.85
	7.3J									
0.3 - 0.4	8B	39B	5.7E	7.41	1.03	3.2		21B	17.34D	15.24
	8.9H		13.7F	9.1	0.81	4.15		19.9C	27.76D	20.85
	7.3J									
0.3 - 0.34										
0.6 - 0.7	8.7B	110B	1.51E	7.23	1.48	10.71		20B	20.93D	53.55
	9.4H		11.5F	13.2	1	16.58		19.5C	42.28D	85.03
	8J									
0.6 - 0.7	8.7B	110B	1.51E	7.23	1.48	10.71		20B	20.93D	53.55
	9.4H		11.5F	13.2	1	16.58		19.5C	42.28D	85.03
	8J									
0.6 - 0.7	8.7B	110B	1.51E	7.23	1.48	10.71		20B	20.93D	53.55
	9.4H		11.5F	13.2	1	16.58		19.5C	42.28D	85.03
	8J									
1.08 - 1.18	7.2B	160B	1.08A	7.53	1.24	8.74		20.2C	18.59D	95.64
	7.7H		1.2F	7.3	0.92	19.32			28.74D	
	6.8J									
1.08 - 1.18	7.2B	160B	1.08A	7.53	1.24	8.74		20.2C	18.59D	95.64
	7.7H		1.2F	7.3	0.92	19.32			28.74D	
	6.8J									
1.08 - 1.18	7.2B	160B	1.08A	7.53	1.24	8.74		20.2C	18.59D	95.64
	7.7H		1.2F	7.3	0.92	19.32			28.74D	
	6.8J									

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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt	Clay
0 - 0.08		1.24D		110B	0.081E					33	12.9	15.9
		1.29A									12	17
0 - 0.08		1.24D		110B	0.081E					33	12.9	15.9
		1.29A									12	17
0 - 0.08		1.24D		110B	0.081E					33	12.9	15.9
		1.29A									12	17
0 - 0.04							1.41					
0.1 - 0.2	<2C	0.5D		59B	0.037E					21	9.1	40.2
	0C	0.68A									10	35
0.1 - 0.2	<2C	0.5D		59B	0.037E					21	9.1	40.2
	0C	0.68A									10	35
0.1 - 0.2	<2C	0.5D		59B	0.037E					21	9.1	40.2
	0C	0.68A									10	35
0.1 - 0.14							1.40					
0.3 - 0.4	3C	0.61A		55B						18	8.7	38.6
	0C										9	38
0.3 - 0.4	3C	0.61A		55B						18	8.7	38.6
	0C										9	38
0.3 - 0.4	3C	0.61A		55B						18	8.7	38.6
	0C										9	38
0.3 - 0.34							1.21					
0.6 - 0.7	16C	0.22A		42B						16	12.7	46.8
	0C										10	49
0.6 - 0.7	16C	0.22A		42B						16	12.7	46.8
	0C										10	49
0.6 - 0.7	16C	0.22A		42B						16	12.7	46.8
	0C										10	49
1.08 - 1.18	<2C	0.12A		39B						14	5.2	33.8
	0C										6	54
1.08 - 1.18	<2C	0.12A		39B						14	5.2	33.8
	0C										6	54
1.08 - 1.18	<2C	0.12A		39B						14	5.2	33.8
	0C										6	54

Laboratory Analyses Completed for this profile

12C1	Calcium chloride extractable boron - manual colour
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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

m	**%**	**%**	**mg/kg**	**%**	**%**	**%**	**Mg/m3**	**%**

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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
15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15J_BASES	Sum of Bases
15L1	Base saturation percentage (BSP)
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
4B_C_2.5	pH of soil - pH of 1:2.5 Soil/0.1M CaCl2 suspension
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
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_gt2m	> 2mm particle size analysis, (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
P10_PB_FS	Fine sand (%) - Plummet balance
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)
P10200_500	200 to 500u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P105002000	500 to 2000u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)
P3A_NR	Bulk density - Not recorded