

**Project Name:** Frankland land resources survey  
**Project Code:** FRA **Site ID:** 0823 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Angela Stuart-Street	<b>Locality:</b>
<b>Date Desc.:</b> 07/12/98	<b>Elevation:</b> No Data
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6235947 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 521192 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

#### Land Form

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

<b>Morph. Type:</b> Mid-slope	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 2 %	<b>Aspect:</b> 0 degrees

#### Surface Soil Condition Firm, Hardsetting

**Erosion:** (wind); (scald) (sheet) (wave) (rill) (mass)  
(gully) (stbank) (tunnel)

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Ferric Mottled-Mesonatric Grey Sodosol	<b>Principal Profile Form:</b> N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
Confidence level not specified	

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation:

**Surface Coarse** 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone; 2-10%, cobbly, 60-200mm, subangular, Quartz

#### Profile

A1 0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Fine sandy loam; Single grain grade of structure; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Water repellent; Field pH 5.6 (pH meter); Clear, Smooth change to -
A2e 0.1 - 0.3 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 5.6 (pH meter); Clear, Smooth change to -
A3e 0.3 - 0.5 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 5.6 (pH meter); Abrupt, Wavy change to -
B2t 0.5 - 1 m	Light grey (2.5Y7/2-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Distinct; Sandy light clay; structure, 2-5 mm, Polyhedral; Rough-ped fabric; 2-10%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.7 (pH meter); Gradual, Smooth change to -
C 1 - 1.3 m	White (2.5Y8/1-Moist); Mottles, 10YR68, 2-10% , 0-5mm, Distinct; , 10R48, 2-10% , 0-5mm, Distinct; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Field pH 4.7 (pH meter);

#### Morphological Notes

A1 Texture: Gravelly humic fine sandy loam.

#### Observation Notes

#### Site Notes

Site midslope on rise.

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# Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.1B 5.8H	10B	7.65H	0.94	0.27	0.2	0.32J		9.06D	
0.1 - 0.3	5B 5.8H	3B	2.12H	0.39	0.04	0.03	0.18J		2.58D	
0.3 - 0.5	5.3B 6.3H	2B	0.94H	0.62	0.03	0.02			1.61D	
0.5 - 1	5.6B 6.2H	3B	0.6H	2.09	0.1	0.11			2.9D	
1 - 1.3	4B 4.8H	6B	0.1H	1.93	0.14	0.37	0.59J		2.54D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		4.48D		400B							7.9
7.4											
0.1 - 0.3		0.85D		64B							4.8
10.6											
0.3 - 0.5		0.29D		29B							3.6
13.9											
0.5 - 1		0.12D		24B							4.4
45.2											
1 - 1.3		0.07D		22B							9.9
58.4											

# Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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
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_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)

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P106001000      600 to 1000u particle size analysis, (method not recorded)