

Project Name: SEA
Project Code: SEA **Site ID:** P193 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	W.M. MacArthur	Locality:	5 chains south of point ~10 chains east of Albany Highway along northern boundary:
Date Desc.:	19/12/53	Elevation:	No Data
Map Ref.:		Rainfall:	0
Northing/Long.:	6448900 AMG zone: 50	Runoff:	Rapid
Easting/Lat.:	406925 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesotrophic Grey Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Brown podzolic soil
No analytical data are available but confidence is fair.			

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

AO	0 - 0.013 m	Brown (7.5YR4/4-Moist); ; Clay loam (Fibric); Weak grade of structure; Dry; Weak consistence; Moderately plastic; Normal plasticity; Field pH 7 (pH meter); Clear, Smooth change to -
Ap	0.013 - 0.2 m	Brown (7.5YR4/4-Moist); ; Sandy medium clay; , Granular; Dry; Weak consistence; Moderately plastic; Normal plasticity; Field pH 6 (pH meter); Clear, Smooth change to -
A2	0.2 - 0.66 m	Yellowish red (5YR4/6-Moist); ; Sandy medium clay; Wet; Moderately plastic; Normal plasticity; Common (10 - 20 %), Manganiferous, , ; Field pH 7 (pH meter); Clear, Smooth change to -
B1	0.66 - 1.27 m	Yellowish brown (10YR5/8-Moist); ; Clay loam; Wet; Moderately plastic; Normal plasticity; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 7 (pH meter);
B2C	1.27 - 1.78 m	Olive grey (5Y5/2-Moist); , 10YR58; , 2.5YR48; Sandy medium clay; Wet; Moderately plastic; Normal plasticity; 20-50%, Substrate material, coarse fragments; Many (20 - 50 %), Ferruginous, , Concretions; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

66-178CM AL GV FERRUGINISED:

Site Notes

SOUTH-WEST LD

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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 - 0.013	6.2A	0.339A								
0.013 - 0.2	5.9A									
0.2 - 0.66	6A	0.321A								
0.66 - 1.27	6.3A									
1.27 - 1.78	6.2A	0.068A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.013		5.06D			0.264B				28D	31	13	22
0.013 - 0.2												
0.2 - 0.66									25D	22	13	38
0.66 - 1.27												
1.27 - 1.78									33D	28	12	29

[illegible]

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Laboratory Analyses Completed for this profile

2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance