

**Project Name:** BUD  
**Project Code:** BUD      **Site ID:** P638      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (WA)

**Site Information**

<b>Desc. By:</b>	E. Bettenay	<b>Locality:</b>	
<b>Date Desc.:</b>	07/08/69	<b>Elevation:</b>	579 metres
<b>Map Ref.:</b>	Sheet No. : 2849 1:100000	<b>Rainfall:</b>	230
<b>Northing/Long.:</b>	119.616666666667	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	-24.116666666667	<b>Drainage:</b>	Well drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Pediplain
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Pediment	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Surface crust

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Gypsic Pedal Hypercalcaric Calcarosol		<b>Principal Profile Form:</b>	Ug5.32
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:**

Tall Strata - Chenopod shrub, , Very sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:** 90-100%, cobbly, 60-200mm, subangular platy, Gravel

**Profile Morphology**

A	0 - 0.025 m	Weak red (10R4/4-Moist); Weak red (10R4/4-Dry); ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Medium, (5 - 10) mm crack; Dry; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); Diffuse change to -
	0.025 - 0.05 m	Weak red (10R4/4-Moist); Weak red (10R4/4-Dry); ; Clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Medium, (5 - 10) mm crack; Weak consistence; 2-10%, Gravel, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9 (pH meter); Diffuse change to -
B	0.05 - 0.1 m	Weak red (10R4/4-Moist); Weak red (10R4/4-Dry); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Medium, (5 - 10) mm crack; Dry; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Diffuse change to -
	0.1 - 0.2 m	Weak red (10R4/4-Moist); Weak red (10R4/4-Dry); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Medium, (5 - 10) mm crack; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.5 (pH meter); Diffuse change to -
	0.2 - 0.24 m	Weak red (10R4/4-Moist); Weak red (10R4/4-Dry); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Medium, (5 - 10) mm crack; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.5 (pH meter); Clear change to -
BC	0.24 - 0.3 m	Weak red (10R4/3-Moist); Weak red (10R4/3-Dry); ; Moderate grade of structure, 20-50 mm, Subangular blocky; Medium, (5 - 10) mm crack; Dry; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.5 (pH meter); Clear change to -
y	0.3 - 0.4 m	Weak red (10R4/3-Moist); Weak red (10R4/3-Dry); ; 2-10%, Shale, coarse fragments; Many (20 - 50 %), Gypseous, , ; Field pH 6 (pH meter); Gradual change to -
y	0.4 - 0.5 m	Weak red (10R4/3-Moist); Weak red (10R4/3-Dry); ; 2-10%, Limestone, coarse fragments; Field pH 6 (pH meter);

**Morphological Notes**

**Observation Notes**

30-50CM GYPSUM WITH UNWEATHERED FINELY BANDED HORIZONTAL SHALE:

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%

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			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile