

**Project Name:** SOU  
**Project Code:** SOU      **Site ID:** P747      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (WA)

**Site Information**

<b>Desc. By:</b>	H.M. Churchwood	<b>Locality:</b>	Muir Highway (south side) 4.7KM east of Sidcup Road:
<b>Date Desc.:</b>	04/11/82	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 2328    1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	117.35	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-34.6166666666667	<b>Drainage:</b>	Poorly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Simple-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Ferric Mottled-Hypernatric Grey Sodosol		<b>Principal Profile Form:</b>	Dy3.61
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Analytical data are incomplete but reasonable confidence.			

**Site Disturbance:**

**Vegetation:**

Tall Strata - Tree, , . \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Single grain grade of structure; Very weak consistence;
0.05 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Single grain grade of structure; Very weak consistence;
0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Sandy loam (Light); Massive grade of structure; Very weak consistence;
0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam (Light); Massive grade of structure; Very weak consistence;
0.4 - 0.5 m	Brown (10YR5/3-Moist); ; Sandy loam; Massive grade of structure; Weak consistence;
0.5 - 0.6 m	Greyish brown (10YR5/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments;
0.6 - 0.7 m	Light brownish grey (10YR6/2-Moist); , 10YR56; Sandy light clay; Massive grade of structure; Weak consistence; 50-90%, Substrate material, coarse fragments;
0.7 - 0.8 m	Yellowish brown (10YR5/4-Moist); , 10YR78; Sandy light clay; Weak consistence; 50-90%, Substrate material, coarse fragments;
0.8 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 10YR63; Sandy light clay; Moderately plastic; Normal plasticity; 50-90%, Substrate material, coarse fragments;

**Morphological Notes**

**Observation Notes**

60-90CM GRAVEL FERRUGINISED:40-50CM PROMINENT BLEACHING:>90CM ON FERRUGINISED GV:

**Site Notes**

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%
0 - 0.05	6.2A	0.009A	2.72K	2.25	0.33	0.35		
0.1 - 0.2	6.4A	0.003A						
0.4 - 0.5	6.3A	0.003A	0.18K	0.35	0.15	0.1		
0.6 - 0.7	6.2A	0.003A						
0.8 - 0.9	6.3A	0.009A	0.13K	0.8	0.06	0.41		

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		6.5D										
0.1 - 0.2												
0.4 - 0.5									53D	37	3	7
0.6 - 0.7												
0.8 - 0.9									40D	34	7	2

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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
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