Project Name: HEL

Project Code: H140 Observation ID: 1 HEL Site ID:

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Locality: 3.2KM WNW of Yolla 3.6KM south of Oldina: J. Loveday

Desc. By: Date Desc.: Elevation: 22/03/56 366 metres Sheet No.: 8015 1:100000 Map Ref.: Rainfall: 1440 Northing/Long.: Runoff: 144.67 Slow

Easting/Lat.: -41.0166667 Drainage: Imperfectly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Substrate Material: Geol. Ref.: No Data Auger boring, 1.6 m deep,Basalt

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Plateau

1-3%

No Data Morph. Type: Relief: No Data

Very gently sloped Elem. Type: Fill-top Slope Category:

0 % Aspect: 0 degrees Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Humose-Acidic Mesotrophic Red Ferrosol Gn4.11 **Principal Profile Form: Great Soil Group:** Krasnozem **ASC Confidence:**

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

I TOTTIC	WO PHOLOGY	
Α	0 - 0.05 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; 0-2%, Charcoal, coarse fragments; Diffuse change to -
Α	0.05 - 0.13 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; Clear change to -
В	0.14 - 0.23 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
В	0.23 - 0.36 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
В	0.36 - 0.54 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
ВС	0.64 - 0.74 m	Yellowish red (5YR4/5-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 10-20%, Basalt, coarse fragments; Diffuse change to -
ВС	0.74 - 0.89 m	Yellowish red (5YR4/5-Moist): : Light clay: Massive grade of structure: Moist: Very firm

0.74 - 0.89 m

consistence; 20-50%, Basalt, coarse fragments; Diffuse change to -

BC 0.89 - 1.04 m Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Moist; Very firm

consistence; 20-50%, Basalt, coarse fragments; Very few (0 - 2 %), Unidentified, Fine (0 - 2

mm), Concretions; Diffuse change to -

1.04 - 1.24 m Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Very firm consistence;

20-50%, Basalt, coarse fragments;

1.6 - 1.63 m Black (5YR2/1-Moist); ; 50-90%, Gravel, coarse fragments;

1.63 - 1.73 m

Morphological Notes

On parent material:

Observation Notes

0-5CM WORMS ACTIVE:160-163CM MEALY DECOMPOSED BA:74-163CM BLACK STAINING ON GRAVELS:

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Site Notes YOLLA

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Laboratory Test Results.												
Depth	pН	1:5 EC		angeable Ig	Cations K	Na	xchangeable Acidity	CEC	ECEC	ESP		
m		dS/m				Cmol (+)	/kg			%		
0 - 0.05	5.1A		5.8H	2.5	1	0.01	37.3H 63.5E					
0.05 - 0.13	5A											
0.14 - 0.23	4.7A		2.2H	2.5	0.26		22.6H 45.2E					
0.23 - 0.36	5.2A											
0.36 - 0.54	4.7A											
0.64 - 0.74	4.7A											
0.74 - 0.89	4.8A											
0.89 - 1.04	4.7A											
1.04 - 1.24	4.7A											
1.6 - 1.63	4.5A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Partio	cle Size A	Analysis Silt Clay		
m	%	%	mg/kg	%	%	%	Mg/m3		%			
0 - 0.05 0.05 - 0.13 0.14 - 0.23 0.23 - 0.36 0.36 - 0.54 0.64 - 0.74 0.74 - 0.89 0.89 - 1.04 1.04 - 1.24 1.6 - 1.63		10.1D 8.4D 4.9D		0.206	0 0.68 0.41 0.27	9A			2D 13 2D 9	30 29 33 46		
Donath	0015		0	(/ O			V	V		
Depth	COLE	Cat	0.05 Bar	metric/Volumetric W				5 Bar	K sat	K unsat		
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	3 Bar 13		mm/h	mm/h		
0 - 0.05 0.05 - 0.13 0.14 - 0.23 0.23 - 0.36 0.36 - 0.54 0.64 - 0.74 0.74 - 0.89 0.89 - 1.04 1.04 - 1.24 1.6 - 1.63												

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Laboratory Analyses Completed for this profile

15E1_CA

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

15G_C_H1 Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0

2_LOI Loss on Ignition (%)
2A1 Air-dry moisture content
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

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9A_HCL
P10_PB_C
P10_PB_CS
P10_PB_FS
P10_PB_FS
P10_PB_Z

Total element - P(%) - By boiling HCl
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance