

Project Name: NAR
Project Code: NAR **Site ID:** B581 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	Narayan Research Station.
Date Desc.:	01/09/69	Elevation:	260 metres
Map Ref.:	Sheet No. : 9046 1:100000	Rainfall:	712
Northing/Long.:	150.775	Runoff:	Moderately rapid
Easting/Lat.:	-25.6666666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pla	Substrate Material:	Undisturbed soil core, 1.2 m deep, Andesite

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	5 metres
Elem. Type:	Pediment	Slope Category:	No Data
Slope:	4.4 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Epipedal Red Vertosol	Principal Profile Form:	Dr2.13
ASC Confidence:	Great Soil Group:	Red-brown earth
All necessary analytical data are available.		

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (5YR3/2-Moist); ; Clay loam; Weak grade of structure, Platy; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
A1	0.05 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam (Heavy); Weak grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
B1	0.1 - 0.15 m	Dark reddish brown (2.5YR3/3-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
B21	0.15 - 0.2 m	Dark reddish brown (2.5YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules;
B21	0.2 - 0.3 m	Dark reddish brown (2.5YR3/3-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
B21	0.3 - 0.55 m	Dark reddish brown (2.5YR3/3-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B22	0.55 - 0.6 m	Reddish brown (2.5YR4/3-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; 5-10 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;
B22	0.6 - 0.9 m	Reddish brown (2.5YR4/3-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; 5-10 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules;

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B22	0.9 - 1.12 m	Reddish brown (2.5YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Diffuse change to -
B3	1.12 - 1.2 m	Reddish brown (2.5YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules;
C	1.2 - 1.34 m	; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments;
C	1.34 - 1.5 m	; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments;

Morphological Notes

Observation Notes

0-5CM PLATY GRADING TO ANGULAR BLOCKY STRUCTURE. OLG(5Y6/2) WEATHERED ANDERSITE WITH CLAY VEINS.

Site Notes

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded