| Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m subrounded, Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m gravelly, 20-60mm, Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m gravelly, 20-60mm, Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m gravelly, 20-60mm, Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m gravelly, 20-60mm, Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m gravelly, 20-60mm, Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - BCm 1.05 - m BCm endurated mottle zone Observation Notes Site Notes Site Notes Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Agency Name: Agriculture Western Australia 1 Laboratory Test Results: Depth PH 1:5 EC Exchangeable Cations Exchangeable | Project Name: Project Code: Agency Name: | MR | A | • | Hills lar Site ID stern Au |): 01 | 85 | | bservatio | on ID: | 1 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-----------|----------------------------------|----------|--------------------|-----------|--------------------|-----------|---------|------------|-----|
| Desc. By: Mir Frahmand Locality: Date Desc: 12/08/96 Elevation: No Data Map Ref: No Data No Data Morthing/Long: 67/0528 AMG zone: 50 Runoff: No Data EsotenyType: Sol pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref: No Data Substrate Material: No Data Morph. Type: No Data Substrate Material: No Data Siope: -2 % Aspect: 90 degrees Surface Soil Condition Frincipal Profile Form N/A Stop: -2 % Aspect: 90 degrees Surface Coarse Fragments Mapping Unit: N/A Acidic Ferric Othic Tenosol Great Soil Group: N/A Asstratian Soil Classification: Mapping Unit: N/A Asstratian Soil Classification: Mapping Unit: N/A Ascidic Ferric Othic Tenosol Great Soil Group: N/A Stre Disturbance Yeaetation N/A Surface Coarse Fragments Forticle and Profile Form: N/A Great Soil Morphology A 0.1 - 0.35 m | | n | | | | | | | | | | | |
| Geology ExposureType: Solid it Conf. Sub. is Parent. Mat:: No Data Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type:: No Data Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type:: No Data Bellow: No Data Slope Category: No Data Slope: -: 2% Aspect: 90 degrees Surface Soil Condition Erosion Mapping Unit: N/A Accide Ferric Orthic Tensosol Principal Profile Form: N/A Ascide Ferric Orthic Tensosol Principal Profile Form: N/A Ste Disturbance Yeaetation N/A Ste Orthic Tensosol N/A Ste Disturbance Yeaetation rounded, tronstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; 2.5YR76, 10-20%, coarse gravelly, 20-60mm, subrounded, tr | Desc. By: Date Desc.: Map Ref.: | Mir Fi 12/08 | /96 | - | 50 | E R | levation | : | No Data | | | | |
| Geol. Ref.: No Data Substrate Material: No Data Landform Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Rises Morph. Type: No Data Slope Category: No Data Slope: -2% Aspect: 90 degrees Surface Soil Condition Erosion (wind); Soil Classification: Mapping Unit: N/A Acidic Ferric Orthic Tenosol Principal Profile Form: N/A Acidic Ferric Orthic Tenosol Principal Profile Form: N/A Acidic Ferric Orthic Tenosol Principal Profile Form: N/A Asc Confidence: Great Soil Group: N/A Confidence Berl not specified Ster Disturbance Yegetation Yegetation Surface Coarse Fragments Fragments: Water repellent; Field pH 5.1 (pH meter); Sharp Profile Morphology rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); . 25YR76, 10-20%; . Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - <t< td=""><td>Geology</td><td>_</td><td></td><td>m: AG[</td><td>D84</td><td></td><td>•</td><td></td><td></td><td>No Dat</td><td>0</td><td></td><td></td></t<> | Geology | _ | | m: AG[| D84 | | • | | | No Dat | 0 | | |
| Rel Silope Class: Undulating rises 9:30m 3:10% Pattern Type: Rises Morph. Type: No Data Elem. Type: Hillstope Stope: -2 % Surface Soil Condition Erosion (wind); Soil Classification Australian Soil Classification: Mapping Unit: N/A Acide Ferric Orthic Tenosol Principal Profile Form: N/A ASC confidence: Great Soil Group: N/A Confidence level not specified Great Soil Group: N/A Site Disturbance Vegetation Surface Coarse Fragments Principal Profile Port. N/A Profile Morpholoay A1 0 - 0.1 m Dark yellowish brown (10YR5/4-Moist); : Clayey fine sand; , Granular; 2-10%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; . Polyhedral; 50-90%, coarse gravelly, 2-0-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/8-Moist); . 2.5YR46, 20-50% ; . Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 0.8 m Yellowish brown | Geol. Ref.: | | | | | - | | | | | | | |
| Erosion (wind); Soil Classification Australian Soil Classification: Mapping Unit: N/A Acidic Ferric Orthic Tenosol Principal Profile Form: N/A ASC Confidence: Great Soil Group: N/A Confidence level not specified Great Soil Group: N/A Site Disturbance Vegetation Surface Coarse Fragments Profile Morphology A 0 - 0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular, 2-10%, fine gravely, 2-6mm, rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp Change to - Principal Profile DPM, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; Polyhedral; 50-90%, coarse gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/8-Moist); 2.5YR76, 10-20%; Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 0.8 m Yellowish brown (10YR5/8-Moist); 2.5YR76, 10-20%; Polyhedral; Field pH 3.9 (pH meter); Sharp change to - B22 0.8 - 1.05 m ; Yellowish brown (10YR5/8-Moist); 2.5YR46, 20-50%; Polyhedral; Field pH 3.9 (pH change to - | Rel/Slope Class: Morph. Type: Elem. Type: | No D Hillsl | No Data Hillslope | | | R S | lelief: lope Ca | | No Data No Data | | | | |
| Soil Classification: Mapping Unit: N/A Acidic Ferric Orthic Tenosol Principal Profile Form: N/A ASC Confidence: Great Soil Group: N/A Confidence level not specified Site Disturbance Vecetation Surface Coarse Fragments Profile Morphology N N/A A1 0-0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular, 2-10%, fine rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter): Diffuse change to - B1c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to - BCm 1.05 - m ; B2c 0.8 - 1.05 m ; endurated mottle zone Observation Notes Site ID: | Surface Soil Co | onditio | on | | | | | | | | | | |
| Australian Soil Classification: Mapping Unit: N/A Acidic Ferric Orthic Tenosol Principal Profile Form: N/A ASC Confidence: Great Soil Group: N/A Site Disturbance Vegetation Surface Coarse Fragments Profile Morphology A1 0 - 0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, subrounded, ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B1c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to - BCm 1.05 - m ; BCm 1.05 - m <td></td> <td><i>,</i>.</td> <td></td> | | <i>,</i> . | | | | | | | | | | | |
| Acidic Ferric Orthic Tenosol Principal Profile Form: N/A ASC Confidence: N/A Confidence level not specified Site Disturbance Vegetation Surface Coarse Fragments Profile Morpholoay A1 0 -0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ;, Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/6-Moist); , 2.5YR76, 10-20% ;, Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ;, Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m ; Morphological Notes Site Notes Damy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC EF | | | | | | | | | | | | | |
| ASC Confidence: Great Soil Group: N/A Confidence level not specified Site Disturbance Vegetation Surface Coarse Fragments Profile Morphology A1 0 - 0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine ravelly, 2-6mm, rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/6-Moist); ; , 2.5YR76, 10-20%; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/6-Moist); , 2.5YR76, 10-20%; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/6-Moist); , 2.5YR76, 10-20%; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to - BCm 1.05 - m ; Morphological Notes Site Notes Loarny gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ES | | | | | | | | | • | Form | | | |
| Confidence level not specified Site Disturbance Yegetation Surface Coarse Fragments Profile Morphology A1 0-0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, lironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, lironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/6-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m Yellowish brown (10YR5/6-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to - BCm 1.05 - m ; Morphological Notes Site Notes Loarny gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ES | | | 501 | | | | | • | | | | | |
| Vegetation Surface Coarse Fragments Profile Morphology A1 0 - 0.1 m gravelly, 2-6mm, thange to - B1c 0.1 - 0.35 m subrounded, Dark yellowish brown (10YR5/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp hange to - B1c 0.1 - 0.35 m subrounded, Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m subrounded, Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m varevely, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m ravely, 20-60mm Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH change to - B2m 1.05 - m eff Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m site Notes endurated mottle zone Observation Notes Site Notes endurated mottle zone Observation Notes Site Notes Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 C Exchangeable Cations K Na Exchangeable CEC ECC EC | Confidence level | not spe | ecified | | | | | | | | | | |
| Surface Coarse Fragments Profile Morphology A1 0 - 0.1 m Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine ravelly, 2-6mm, rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B1c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to - BCm 1.05 - m ; Morphological Notes site Notes Site Notes endurated mottle zone Deservation Notes Site ID: 0185 Site Notes Loarny gravel. Yb acidic earthy soil. Iron stone country Project Code: MRA Site ID: 018 | | <u>e</u> | | | | | | | | | | | |
| Profile Morphology A1 0 - 0.1 m gravelly, 2-6mm, Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular; 2-10%, fine rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp change to - B1c 0.1 - 0.35 m subrounded, Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m subrounded, Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m gravelly, 20-60mm, Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m meter); Sharp Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp Change to - Secm endurated mottle zone Observation Notes endurated mottle zone Site Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Exchangeable CEC ECE Depth pH 1:5EC Exchangeable Cations E | | | monto | | | | | | | | | | |
| A1 0 - 0.1 m gravelly, 2-6mm, change to - Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; , Granular, 2-10%, fine rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp B1c 0.1 - 0.35 m subrounded, Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B1c 0.35 - 0.6 m subrounded, Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m gravelly, 20-60mm, Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m gravelly, 20-60mm, Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp Change to - Stem Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m ; Morphological Notes endurated mottle zone Observation Notes Site Notes Loarny gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Dept | | | ments | | | | | | | | | | |
| rounded, Ironstone, coarse fragments; Water repellent; Field pH 5.1 (pH meter); Sharp B1C 0.1 - 0.35 m Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/6-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m ; Morphological Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES | A1 0 - 0.1 m | | | | | | 4-Moist); | ; Clayey | fine sand; | , Granula | ar; 2-1 | 0%, fine | |
| subrounded, B12c 0.35 - 0.6 m Subrounded, Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m gravelly, 20-60mm, Subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m Meter); Sharp Change to - BCm 1.05 - m Site Notes Loarny gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES Ca Mg K Na Acidity | | | rounde | ed, Iron: | stone, coa | arse fra | gments; | Water rep | ellent; Fie | ld pH 5.1 | (pH ı | meter); Sh | arp |
| B12c 0.35 - 0.6 m Yellowish brown (10YR5/6-Moist); ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20% ; , Polyhedral; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH meter); Sharp change to - BCm endurated mottle zone Observation Notes endurated mottle zone Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES | B1c 0.1 - 0.35 m subrounded, | | Yellowish brown (10YR5/4-Moist); ; , Polyhedral; 50-90%, medium gravelly, 6-20mm, | | | | | | | | | | |
| subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B2c 0.6 - 0.8 m gravelly, 20-60mm, B22 0.8 - 1.05 m Meter); Sharp BCm 1.05 - m ; Morphological Notes BCm endurated mottle zone Observation Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ES Ca Mg K Na Acidity | | | Ironstone, coarse fragments; Field pH 4.1 (pH meter); Diffuse change to - | | | | | | | | | | |
| B2c 0.6 - 0.8 m gravelly, 20-60mm, Yellowish brown (10YR5/8-Moist); , 2.5YR76, 10-20%; , Polyhedral; 50-90%, coarse subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m meter); Sharp Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50%; , Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m ; Morphological Notes endurated mottle zone Observation Notes site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECC ECE Ca Mg K Na Acidity | | 6 m | | | | | | | | | | | |
| gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 3.9 (pH meter); Diffuse change to - B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m ; <u>Morphological Notes</u> BCm endurated mottle zone <u>Observation Notes</u> <u>Site Notes</u> Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia <u>Laboratory Test Results:</u> Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ES Ca Mg K Na Acidity | | | | | | | | | | | | | |
| B22 0.8 - 1.05 m Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH change to - BCm 1.05 - m ; Morphological Notes endurated mottle zone Dbservation Notes endurated mottle zone Observation Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECC ESC | B2c 0.6 - 0.8 gravelly, 20-60mm, | m | | | ` | | , | | | | - | | |
| change to - BCm 1.05 - m BCm endurated mottle zone Observation Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth Depth pH 1:5 EC Ca Mg K Na Acidity CEC ECEC ES | | | Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% ; , Polyhedral; Field pH 3.9 (pH | | | | | | | | | | |
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| BCm endurated mottle zone Observation Notes Site Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES | BCm 1.05 - m | | ; | | | | | | | | | | |
| Observation Notes Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Exchangeable Cations Exchangeable CEC ECE ES Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES | Morphological | Notes | 5 | | | | | | | | | | |
| Site Notes Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES | BCm | | | ted mot | ttle zone | | | | | | | | |
| Loamy gravel. Yb acidic earthy soil. Iron stone country Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ES | Observation No | otes | | | | | | | | | | | |
| Project Name: Moora Wongan Hills land resources survey Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES Ca Mg K Na Acidity | Site Notes | | | | | | | | | | | | |
| Project Code: MRA Site ID: 0185 Observation 1 Agency Name: Agriculture Western Australia Image: Agriculture Western Australia Image: Agriculture Western Australia Image: Agriculture Western Australia Image: Agriculture Western Australia Laboratory Test Results: Image: Agriculture Western Australia Image: Agriculture Western Australia Image: Agriculture Western Australia Image: Agriculture Western Australia Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECE ES Ca Mg K Na Acidity Acidity Image: Agriculture Western Australia | Loamy gravel. Yb | acidic | earthy s | soil. Iro | n stone c | ountry | | | | | | | |
| Laboratory Test Results: Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ES Ca Mg K Na Acidity | • | | | ongan | | | | - | bservatio | on 1 | 1 | | |
| Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ES Ca Mg K Na Acidity | Agency Name: | Ag | ricultur | re Wes | stern Au | Istralia | I | | | | | | |
| Ca Mg K Na Acidīty | Laboratory Tes | st Res | ults: | | | | | | | | | | |
| | Depth pH | ł | 1:5 EC | 0. | - | | | | | CEC | | ECEC | ES |
| | m | | dS/m | Ca | Mg | К | | | | | | | |

| 0 - 0.1 | 4.4B 5.4H | 3B | 0.71H | 0.23 | 0.15 | 0.07 | 0.34J | 1.16D |
|------------|--------------|----|-------|------|------|------|-------|-------|
| 0.1 - 0.35 | 4B 4.6H | 7B | 0.48H | 0.14 | 0.07 | 0.11 | 0.97J | 0.8D |
| 0.35 - 0.6 | 4B 4.5H | 6B | 0.29H | 0.1 | 0.05 | 0.08 | 1.17J | 0.52D |
| 0.6 - 0.8 | 3.9B 4.2H | 6B | 0.21H | 0.08 | 0.04 | 0.07 | 1.12J | 0.4D |

| Depth | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV CS | Size Analysis FS Silt |
|--------------------|-------|----------------------|-------------|------------|------------|------------|-----------------|-------------------|--------------------------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | % |
| 0 - 0.1 12.6 | | 1.04D | | 110B | 0.055E | E | | | 5.2 |
| 0.1 - 0.35 23.7 | | 0.65D | | | | | | | 6 |
| 0.35 - 0.6 24 | | 0.31D | | | | | | | 5.3 |
| 0.6 - 0.8 24.3 | | 0.22D | | | | | | | 5.1 |

Laboratory Analyses Completed for this profile

| 15_NR_BSa 15_NR_CMR 15_NR_MN 15E1_AL 15E1_CA | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+.Mg2+.Na+.K+) by compulsive exchange, no pretreatment for soluble |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| salts | |
| 15E1_K 15E1_MG 15E1_NA 15J_BASES 15N1_b 18A1_NR 3_NR | 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 Sum of Bases Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Bicarbonate-extractable potassium (not recorded) Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 4B_AL_NR | Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 7A1 | Total nitrogen - semimicro Kjeldahl, steam distillation |
| 9A3 | Total Phosphorus (ppm) - semimicro kjeldahl, automated colour |
| 9B_NR | Bicarbonate-extractable phosphorus (not recorded) |
| 9H1 | Anion storage capacity |
| P10_1m2m | 1000 to 2000u particle size analysis, (method not recorded) |
| P10_20_75 | 20 to 75u particle size analysis, (method not recorded) |
| P10_75_106 | 75 to 106u particle size analysis, (method not recorded) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_Saa | Sand (%) - Not recorded arithmetic difference, auto generated |
| P10_NR_Z | Silt (%) - Not recorded |
| P10106_150 | 106 to 150u particle size analysis, (method not recorded) |
| P10150_180 P10180 300 | 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) |
| P10300 600 | |
| P106001000 | 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded) |
| F 100001000 | out to roou particle size analysis, (method not recorded) |