Project Name: Project Code: Agency Name:	CAN CAN Site ID: CSIRO Division of Soils (N		bservation ID:	1
Site Information	1			
Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	C.L. Watson 29/08/78 Sheet No. : 8837 1:100000 149.616666666667 -30.13333333333333	Locality: Elevation: Rainfall: Runoff: Drainage:	Bald Hill Road ~3 225 metres 650 Very slow Imperfectly draine	7KM from Narrabri d
ExposureType: Geol. Ref.:	No Data No Data	Conf. Sub. is Pare Substrate Materia		porous, Unconsolidated material
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Flat Plain <1 %	Pattern Type: Relief: Slope Category: Aspect:	Alluvial plain No Data Level No Data	
Surface Soil Co	ndition (dry): Recently cultiva	ated, Self-mulching		
Erosion:				
Soil Classificati	<u>ion</u>			
Australian Soil Cl Epicalcareous-Epil ASC Confidence Analytical data are	assification: hypersodic Self-Mulching Black Ve	ertosol Princi Great	ng Unit: pal Profile Form: Soil Group:	N/A Ug5.16 Black earth
Surface Coarse	Fragments:			
Profile Morphol	ogy			
0 - 0.1 m	Very dark greyish brown (1 consistence; Slightly plasti			anular; Very weak
0.1 - 0.2	m Very dark greyish brown (1 Moderately plastic; Slightly			ocky; Very weak consistence;
0.2 - 0.3	m Very dark greyish brown (1 Moderately plastic; Slightly			ocky; Very weak consistence;
0.3 - 0.4	m Very dark greyish brown (1 Moderately plastic; Slightly			locky; Very weak consistence;
0.4 - 0.5	m Very dark greyish brown (1 Moderately plastic; Slightly Field pH 9 (pH meter);	/ sticky; Few (2 - 10 %		ocky; Very weak consistence; (0 - 2 mm), Concretions;
0.5 - 0.6	m Very dark greyish brown (1 Moderately plastic; Slightly Field pH 8.9 (pH meter);			ocky; Very weak consistence; (0 - 2 mm), Concretions;
0.6 - 0.7	m Very dark greyish brown (1 Moderately plastic; Slightly Field pH 8.8 (pH meter);			locky; Very weak consistence; (0 - 2 mm), Concretions;
0.7 - 0.8	m Very dark greyish brown (1 Moderately plastic; Slightly Field pH 8.8 (pH meter);			locky; Very weak consistence; (0 - 2 mm), Concretions;
0.8 - 0.9	m Very dark greyish brown (1 Moderately plastic; Slightly Field pH 8.8 (pH meter);			locky; Very weak consistence; (0 - 2 mm), Concretions;
0.9 - 1 m	Very dark greyish brown (1 Moderately plastic; Slightly Field pH 8.1 (pH meter);	10YR3/2-Moist); ; Hea / sticky; Few (2 - 10 %	vy clay; , Angular bl .), Calcareous, Fine	locky; Very weak consistence; (0 - 2 mm), Concretions;

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Observation ID: 1

- 1 1.1 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
- 1.1 1.2 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
- 1.2 1.3 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
- 1.3 1.4 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
- 1.4 1.5 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
- 1.5 1.6 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
- 1.6 1.7 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
- 1.7 1.8 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
- 1.8 1.9 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
- 1.9 2 m Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter):

## **Morphological Notes**

Observation Notes SLICKENSIDES >10CM Site Notes

NARRABRI

Project Name:	CAN				
Project Code:	CAN	Site ID:	CP112	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (N	NSW)		

## Laboratory Test Results:

Depth         pH         1:5 EC         Exchangeable Cations Mg         Exchangeable Na         CEC         ECE         ECE         EECH Mg         CEC         ECE         EECH Mg         Na         Acidity Monol (+)/kg         Vice         Na           0 - 0.1         7.9A         0.08A         29.9K         10.3         2.3         1.3         7.8B         51.6J         2.52           0.1 - 0.2         8.3A         0.1A         0.3A         0.4         8.4A         0.13A         2.3         1.3         7.8B         51.6J         2.52           0.4         0.5         9A         0.2A         0.3A         0.3A         0.4         6.6         7         8.8A         0.46A           0.8 0.9         8.8A         0.3A         0.3A         0.3A         0.3A         0.3A         0.3A         0.9A         1.1         1.5         6.8A         1.2A         1.5         1.6         8.8A         0.68A         1.2A           1.1.1.2         8.6A         1.2A	Laboratory	Test Re	sults:								
m         dS/m         Cmol (+)/kg         %           0 - 0.1         7.9A         0.08A         29.9K         10.3         2.3         1.3         7.8B         51.6J         2.52           0.1 - 0.2         8.3A         0.08A         0.9.9K         10.3         2.3         1.3         7.8B         51.6J         2.52           0.1 - 0.2         8.3A         0.08A         0.9.9         1         3.1A         7.8B         51.6J         2.52           0.4         0.5         9A         0.2A         0.5         0.6         8.8A         0.3A           0.5 0.6         8.9A         0.3A         0.2A         0.5         0.9         1         8.8A         0.46A           0.8 0.9         8.8A         0.46A         0.9A         1         1.1         1.2         8.6A         0.9A           1.3         1.4         8.6A         1.2A         1.4         1.5         8.5A         1.2A           1.5 1.6         8.5A         1.2A         1.5         8.5A         1.2A           1.5 1.6         8.5A         1.2A         1.5         5D         18         20         55           0.1         0.1A         0.83D </th <th>Depth</th> <th>рН</th> <th>1:5 EC</th> <th>Exc</th> <th>hangeable</th> <th>Cations</th> <th>Ex</th> <th>changeable</th> <th>CEC</th> <th>ECEC</th> <th>ESP</th>	Depth	рН	1:5 EC	Exc	hangeable	Cations	Ex	changeable	CEC	ECEC	ESP
0 - 0.1         7.9A         0.08A         29.9K         10.3         2.3         1.3         7.8B         51.6J         2.52           0.1 - 0.2         8.3A         0.08A         0.08A<			10 (	Ca	Mg	к					
0.1-0.2 8.3A 0.06A 0.2-0.3 8.7A 0.1A 0.3-0.4 8.8A 0.13A 0.4-0.5 9A 0.2A 0.5-0.6 8.9A 0.3A 0.6-0.7 8.8A 0.46A 0.8-0.9 8.8A 0.63A 11.1 8.7A 0.68A 11.1 8.7A 0.68A 1.1-1.2 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.5-1.6 8.5A 1.2A 1.5-1.6 8.5A 1.2A 1.9-2 8.5A 1.3A 1.9-2 8.5A 1.3A 1.9-2 8.5A 1.2A Depth CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis r P P N K Density GV CS FS Sit Clay m % % mg/kg % % % Mg/m3 % 0-0.1 0.1A 0.83D 0.9-1 0.1A 0.83D 0.9-1 1.1.1 1.1-1.2 1.2-1.3 0.9-1 1.1.1 1.1-1.2 1.2-1.3 1.3-1.4 1.4-1.5 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.7 1.7-1.8 Depth COLE Gravimetric/Volumetric Water Contents K st K unsat	m		dS/m				Cmol (+)/I	kg			%
0.1-0.2 8.3A 0.06A 0.2-0.3 8.7A 0.1A 0.3-0.4 8.8A 0.13A 0.4-0.5 9A 0.2A 0.5-0.6 8.9A 0.3A 0.6-0.7 8.8A 0.46A 0.8-0.9 8.8A 0.63A 11.1 8.7A 0.68A 11.1 8.7A 0.68A 1.1-1.2 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.5-1.6 8.5A 1.2A 1.5-1.6 8.5A 1.2A 1.9-2 8.5A 1.3A 1.9-2 8.5A 1.3A 1.9-2 8.5A 1.2A Depth CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis r P P N K Density GV CS FS Sit Clay m % % mg/kg % % % Mg/m3 % 0-0.1 0.1A 0.83D 0.9-1 0.1A 0.83D 0.9-1 1.1.1 1.1-1.2 1.2-1.3 0.9-1 1.1.1 1.1-1.2 1.2-1.3 1.3-1.4 1.4-1.5 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.7 1.7-1.8 Depth COLE Gravimetric/Volumetric Water Contents K st K unsat	0 - 0.1	7.9A	0.08A	29.9K	10.3	2.3	1.3	7.8B	51.6J		2.52
0.2-0.3 8.7A 0.1A 0.3-0.4 8.8A 0.13A 0.4-0.5 9A 0.2A 0.5-0.6 8.9A 0.3A 0.6-0.7 8.8A 0.37A 0.7-0.8 8.8A 0.46A 0.8-0.9 0.9-1 8.1A 0.68A 11.1 8.7A 0.68A 11.1 8.7A 0.68A 11.1 8.7A 0.68A 11.1 8.6A 0.9A 1.2-1.3 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.4-1.5 8.3A 1.2A 1.5-1.6 8.5A 1.2A 1.9-2 8.5A 1.2A Depth CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis C P P N K Density GV CS FS Silt Clay m % % mg/kg % % % Mg/m3 % 0-0.1 0.1A 0.83D 0-0.1 0.1A 0.83D 0.3-0.4 0.4-0.5 0.6-0.7 0.7-0.8 0.8-0.9 0.9-1 11.1 11.2 1.2-1.3 1.3-1.4 1.4-1.5 1.5-1.6 1.6-1.7 1.7-1.8 Depth COLE Gravimetric/Volumetric Water Contents K st K unsat						2.0		1102	0.100		2.02
0.3-0.4 8.8A 0.13A 0.4-0.5 9A 0.2A 0.5-0.6 8.9A 0.3A 0.6-0.7 8.8A 0.6A 0.8-0.9 8.8A 0.63A 0.9-1 8.1A 0.68A 1.1-1.2 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.5-1.6 8.5A 1.2A 1.6-1.7 8.4A 1.4A 1.7-1.8 8.4A 1.4A 1.9-2 8.5A 1.2A Depth CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis C P P N K Density GV CS FS Sitt Clay m % % mg/kg % % % Mg/m3 5 C FS Sitt Clay 0-0.1 0.1A 0.83D 0.1-0.2 0.2-0.3 0.3-0.4 0.4-0.5 0.5-0.6 0.6-0.7 0.7-0.8 0.9-1 1.1-1.2 1.2-1.3 1.3-1.4 1.4-1.5 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.7 1.7-1.8 1.3-1.4 1.4-1.5 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.6 1.5-1.7 1.5-1.8 1.3-1.4 1											
0.4-0.5 9A 0.2A 0.5-0.6 8.9A 0.3A 0.6-0.7 8.8A 0.45A 0.8-0.9 8.8A 0.45A 0.9-1 8.1A 0.86A 1.1-1.2 8.6A 0.83A 1.2-1.3 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.4-1.5 8.3A 1.2A 1.5-1.6 8.5A 1.2A 1.6-1.7 8.4A 1.4A 1.8-1.9 8.5A 1.3A 1.9-2 8.5A 1.2A Depth CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis m % % mg/kg % % % Mg/m3 6V CS FS Silt Clay m % % mg/kg % % % Mg/m3 5V 7 0-0.1 0.1A 0.83D 0.3-0.4 0.4-0.5 0.5-0.6 0.6-0.7 0.7-0.8 0.8-0.9 0.9-1 1-11 1.1.1											
0.5 - 0.6       8.9.A       0.3.A         0.6 - 0.7       8.8.A       0.37A         0.7 - 0.8       8.8.A       0.53A         0.8 - 1       8.1.A       0.86A         1.1 - 1.2       8.6.A       0.8.3.A         1.1 - 1.2       8.6.A       0.8.3.A         1.1 - 1.2       8.6.A       0.8.3.A         1.2 - 1.3       8.6.A       0.9.A         1.3 - 1.4       8.6.A       1.2.A         1.4 - 1.5       8.5.A       1.2.A         1.5 - 1.6       8.5.A       1.2.A         1.6 - 1.7       8.4.A       1.4.A         1.8 - 1.9       8.5.A       1.2.A         1.9 - 2       8.5.A       1.2.A         m       %       %       Mg/m3       GV CS FS Silt Clay         m       %       %       mg/kg       %       %       Mg/m3       %         0 - 0.1       0.1.A       0.8.3D       5D       18       20       55         0.1 - 0.2       0.3       0.4       4       0.5       0.6       0.6       0.7       0.7       0.8       0.8       0.9       0.9 - 1       1 - 1.1       1 - 1.1       1 - 1.1       1 - 1.1       1 - 1.1											
0.6-0.7 8.8A 0.37A 0.7-0.8 8.8A 0.53A 0.8-0.9 8.8A 0.53A 0.9-1 8.1A 0.86A 1.1-1.2 8.6A 0.83A 1.2-1.3 8.6A 0.9A 1.3-1.4 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.4-1.5 8.3A 1.2A 1.5-1.6 8.5A 1.2A 1.7-1.8 8.4A 1.4A 1.8-1.9 8.5A 1.3A 1.9-2 8.5A 1.2A 0-0.1 0.1A 0.83D 0-0.1 0.1A 0.83D 0-0.1 0.1A 0.83D 0.3-0.4 0.4-0.5 0.5-0.6 0.6-0.7 0.7-0.8 0.8-0.9 0.9-1 1-1.1 1.1-12 1.2-13 1.3-1.4 1.4-1.5 1.5-1.6 1.6-1.7 1.5-1.6 1.5-1.5 1.5-1.6 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-1.5 1.5-											
0.7-0.8 8.8A 0.46A 0.8-0.9 8.8A 0.45A 0.9-1 8.1A 0.86A 1-1.1 8.7A 0.68A 1.1-1.2 8.6A 0.83A 1.2-1.3 8.6A 0.9A 1.3-1.4 8.6A 1.2A 1.4-1.5 8.5A 1.2A 1.6-1.7 8.4A 1.4A 1.7-1.8 8.4A 1.4A 1.9-2 8.5A 1.2A Depth CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis C P P N K Density GV CS FS Silt Clay m % % mg/kg % % % Mg/m3 GV CS FS Silt Clay 0-0.1 0.1A 0.83D 0-0.1 0.1A 0.83D 0-0.1 0.1A 0.83D 0-0.1 0.1A 0.83D 0.9-1 1-1.1 1.1.1											
0.9-1       8.1A       0.86A         1-1.1       8.7A       0.68A         1.1-1.2       8.6A       0.9A         1.3-14       8.6A       1.2A         1.4-15       8.5A       1.2A         1.6-1.7       8.4A       1.4A         1.8-1.9       8.5A       1.3A         1.9-2       8.5A       1.2A         m       %       %       %       Mg/m3       %         0-0.1       0.1A       0.83D       5D       18       20       55         0.1-0.2       0.1A       0.83D       5D       18       20       55         0.1-0.2       0.2-0.3       0.3       0.4       0.4       0.5       0.5       0.6       0.7         0.7-0.8       0.9-1       1											
1-1.1       8.7A       0.68A         1.1 - 1.2       8.6A       0.83A         1.2 - 1.3       8.6A       0.9A         1.3 - 1.4       8.6A       1.2A         1.4 - 1.5       8.5A       1.2A         1.5 - 1.6       8.5A       1.2A         1.5 - 1.6       8.5A       1.2A         1.6 - 1.7       8.4A       1.4A         1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.2A         0 - 0.1       0.1A       0.83D       %         0 - 0.1       0.1A       0.83D       5D       18       20       55         0.1 - 0.2       0.2       0.3       30       -4       -5       5D       18       20       55         0.2 - 0.3       0.3       -1 <td>0.8 - 0.9</td> <td>8.8A</td> <td>0.53A</td> <td>١</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0.8 - 0.9	8.8A	0.53A	١							
1.1 - 1.2       8.6A       0.83A         1.2 - 1.3       8.6A       0.9A         1.3 - 1.4       8.6A       1.2A         1.4 - 1.5       8.3A       1.2A         1.5 - 1.6       8.5A       1.2A         1.6 - 1.7       8.4A       1.4A         1.7 - 1.8       8.4A       1.4A         1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.3A         1.9 - 2       8.5A       1.2A         C P P N K Density GV CS FS Silt Clay         m       %       %         0 - 0.1       0.1A       0.83D         0.1 - 0.2       0.2 - 0.3       0.4         0.4 - 0.5       0.6 - 0.7       0.7 - 0.8         0.9 - 1       1.1 - 1.1       1.1 - 1.2         1.2 - 1.3       1.3 - 1.4       1.4 - 1.5         1.5 - 1.6       1.6 - 1.7       1.7 - 1.8         1.8 - 1.9       1.9 - 2	0.9 - 1	8.1A	0.86A	١							
1.2 - 1.3       8.6A       0.9A         1.3 - 1.4       8.6A       1.2A         1.4 - 1.5       8.3A       1.2A         1.5 - 1.6       8.5A       1.2A         1.7 - 1.8       8.4A       1.4A         1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.2A         C P P N K Density GV CS FS Silt Clay         m       %       %         0 - 0.1       0.1A       0.83D         0.1 - 0.2       0.3       0.3 - 0.4         0.4 - 0.5       0.5 - 0.6       0.6         0.6 - 0.7       0.7 - 0.8       0.8 - 0.9         0.9 - 1       1 - 1.1       1.1 - 1.2         1.2 - 1.3       1.3 - 1.4       1.4 - 1.5         1.5 - 1.6       1.6 - 1.7       1.7 - 1.8         1.8 - 1.9       1.9 - 2       9         Depth COLE Gravimetric/Volumetric Water Contents       K sat K unsat	1 - 1.1	8.7A	0.68A	١							
1.3 - 1.4       8.6A       1.2A         1.4 - 1.5       8.3A       1.2A         1.5 - 1.6       8.5A       1.2A         1.6 - 1.7       8.4A       1.4A         1.7 - 1.8       8.4A       1.4A         1.9 - 2       8.5A       1.2A         Depth       CaCO3       Organic       Avail.       Total       Total       Bulk       Particle Size Analysis         m       %       %       mg/kg       %       %       Mg/m3       %       %         0 - 0.1       0.1A       0.83D       5D       18       20       55         0.1 - 0.2       0.2 - 0.3       0.3 - 0.4       0.4 - 0.5       0.6       0.7       0.7 - 0.8         0.8 - 0.9       0.9 - 1       1.1 - 1.1       1.1 - 1.2       1.2 - 1.3       1.3 - 1.4       1.4 - 1.5       1.5 - 1.6       1.6 - 1.7         1.7 - 1.8       1.8 - 1.9       1.9 - 2              Depth       COLE       Gravimetric/Volumetric Water Contents       K sat       K unsat	1.1 - 1.2	8.6A	0.83A	١							
1.4 - 1.5       8.3A       1.2A         1.5 - 1.6       8.5A       1.2A         1.6 - 1.7       8.4A       1.4A         1.7 - 1.8       8.4A       1.4A         1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.2A         Depth CaCO3 Organic C P P P N K Density GV CS FS Silt Clay         m       %       %       % Mg/m3       %         0 - 0.1       0.1A       0.83D       5D       18       20       55         0.1 - 0.2       0.3       0.4       0.4       0.5       0.5       0.6       0.6       0.7       0.7       0.8       0.9       0.9       1       1       1       1       1       1.1       1       1.1       1       1.1       1       1.2       1.2       1.3       1.4       1.4       1.5       1.5       1.6       1.7       1.7       1.8       1.8       1.9	1.2 - 1.3										
1.5 - 1.6       8.5A       1.2A         1.6 - 1.7       8.4A       1.4A         1.7 - 1.8       8.5A       1.3A         1.9 - 2       8.5A       1.2A         Depth CaCO3 Organic C P P N K Density GV CS FS Silt Clay         m       %       %         0 - 0.1       0.1A       0.83D         0 - 0.2       0.2 - 0.3       0.3         0.3 - 0.4       0.4 - 0.5       0.5         0.5 - 0.6       0.6 - 0.7         0.7 - 0.8       0.8 - 0.9         0.9 - 1       1 - 1.1         1.1 - 1.2       1.2 - 1.3         1.3 - 1.4       1.4 - 1.5         1.5 - 1.6       1.7         1.7 - 1.8       1.8 - 1.9         1.9 - 2       2         Depth COLE Gravimetric/Volumetric Water Con											
1.6 - 1.7       8.4A       1.4A         1.7 - 1.8       8.4A       1.4A         1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.2A         Depth CaC03 Organic C P P N K Density GV CS FS Silt Clay         m       %       %       %       Mg/m3       %       %         0 - 0.1       0.1A       0.83D       5D       18       20       55         0.1 - 0.2       0.2       0.3       0.3       5D       18       20       55         0.2 - 0.3       0.3       0.4       0.5       5       18       20       55         0.5 - 0.6       0.6       0.7       0.7       0.8       0.8 - 0.9       0.9 - 1       1       1.1       1.1       1.1       1.1       1.1       1.2       1.2       1.3       1.4       1.4       1.4       1.5       1.5 - 1.6       1.6       1.7       1.7 - 1.8       1.8 - 1.9       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2       1.9 - 2											
1.7 - 1.8       8.4A       1.4A         1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.2A         Depth CaCO3 Organic C P P N K Density GV CS FS Silt Clay m % % mg/kg % % % Mg/m3         0 - 0.1       0.1A       0.83D         0 - 0.1       0.1A       0.83D         0.1 - 0.2       0.2 - 0.3         0.3 - 0.4       0.4 - 0.5         0.5 - 0.6       0.6 - 0.7         0.7 - 0.8       0.8 - 0.9         0.9 - 1       1.11         1.1 - 1.2       1.2 - 1.3         1.3 - 1.4       1.4 - 1.5         1.5 - 1.6       1.6 - 1.7         1.7 - 1.8       1.8 - 1.9         1.9 - 2       Depth COLE       Gravimetric/Volumetric Water Contents         K sat       K unsat											
1.8 - 1.9       8.5A       1.3A         1.9 - 2       8.5A       1.2A         Depth       CaCO3       Organic       Avail.       Total       Total       Total       Bulk       Particle Size Analysis         m       %       %       mg/kg       %       %       Density       GV CS       FS       Silt       Clay         0 - 0.1       0.1A       0.83D       5D       18       20       55         0.1 - 0.2       0.2 - 0.3       0.3 - 0.4       0.4 - 0.5       0.5 - 0.6       0.6 - 0.7       0.7 - 0.8       0.9 - 1       1.1 - 1.2       1.2 - 1.3       1.3 - 1.4       1.4 - 1.5       1.5 - 1.6       1.6 - 1.7       1.7 - 1.8       1.8 - 1.9       1.9 - 2       Depth       COLE       Gravimetric/Volumetric Water Contents       K sat       K unsat											
1.9-2     8.5A     1.2A       Depth     CaCO3     Organic C     P     P     N     K     Density     GV     CS     FS     Silt     Clay       m     %     %     mg/kg     %     %     %     Mg/m3     %     %       0 - 0.1     0.1A     0.83D     5D     18     20     55       0.1 - 0.2     0.3     0.3     0.4     0.4     0.5     0.6     0.7       0.7 - 0.8     0.9     0.9 - 1     1.11     1.1     1.1     1.1     1.1     1.1     1.2       1.2.1.2     1.3     1.3     1.4     1.4     1.5     1.6     1.6     1.7       1.7 - 1.8     1.8     1.9     2        Kat     K unsat											
Depth         CaCO3         Organic C         Avail. P         Total P         Total N         Total K         Density Density Mg/m3         Particle GV         Size FS         Analysis Silt           0 - 0.1         0.1A         0.83D         5D         18         20         55           0.1 - 0.2         0.2 - 0.3         0.4         0.4         0.5         5D         18         20         55           0.5 - 0.6         0.6         0.7         0.7         0.8         0.9         0.9 - 1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.2         1.3         1.3         1.4         1.4         1.5         1.6         1.6         1.7         1.7         1.8         1.9         1.9         2         1.9         2         1.9         1.9         2         1.9											
C         P         N         K         Density         GV         CS         FS         Sitt         Clay           m         %         %         mg/kg         %         %         Mg/m3         %         %           0 - 0.1         0.1A         0.83D         5D         18         20         55           0.1 - 0.2         0.2 - 0.3         0.3 - 0.4         5D         18         20         55           0.5 - 0.6         0.6 - 0.7         0.7 - 0.8         0.9 - 1         1         1.1	1.9 - 2	8.5A	1.2A								
C         P         N         K         Density         GV         CS         FS         Sitt         Clay           m         %         %         mg/kg         %         %         Mg/m3         %         %           0 - 0.1         0.1A         0.83D         5D         18         20         55           0.1 - 0.2         0.2 - 0.3         0.3 - 0.4         5D         18         20         55           0.5 - 0.6         0.6 - 0.7         0.7 - 0.8         0.9 - 1         1         1.1											
m         %         mg/kg         %         Mg/m3         %           0 - 0.1         0.1A         0.83D         5D         18         20         55           0.1 - 0.2         0.2 - 0.3         0.3         0.4         0.4         0.5         5D         18         20         55           0.5 - 0.6         0.6         0.7         0.7         0.8         0.9         0.9 - 1         1         1         1.1         1.1         1.1         1.1         1.1         1.2         1.2         1.3         1.3         1.4         1.4         1.5         1.5         1.6         1.6         1.6         1.7         1.7         1.8         1.8         1.9         1.9 - 2         2         Depth         COLE         Gravimetric/Volumetric Water Contents         K sat         K unsat	Depth	CaCO3									
0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat	m	%		-					GV 00		Sint Clay
0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat		0.1A	0.83D						5	D 18	20 55
0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
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0.8 - 0.9 0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
0.9 - 1 1 - 1.1 1.1 - 1.2 1.2 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9 1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
1 - 1.1         1.1 - 1.2         1.2 - 1.3         1.3 - 1.4         1.4 - 1.5         1.5 - 1.6         1.6 - 1.7         1.7 - 1.8         1.8 - 1.9         1.9 - 2											
1.1 - 1.2         1.2 - 1.3         1.3 - 1.4         1.4 - 1.5         1.5 - 1.6         1.6 - 1.7         1.7 - 1.8         1.8 - 1.9         1.9 - 2    Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
1.2 - 1.3         1.3 - 1.4         1.4 - 1.5         1.5 - 1.6         1.6 - 1.7         1.7 - 1.8         1.8 - 1.9         1.9 - 2    Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
1.3 - 1.4         1.4 - 1.5         1.5 - 1.6         1.6 - 1.7         1.7 - 1.8         1.8 - 1.9         1.9 - 2    Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
1.5 - 1.6         1.6 - 1.7         1.7 - 1.8         1.8 - 1.9         1.9 - 2         Depth       COLE         Gravimetric/Volumetric Water Contents       K sat         K unsat											
1.6 - 1.7         1.7 - 1.8         1.8 - 1.9         1.9 - 2         Depth       COLE         Gravimetric/Volumetric Water Contents       K sat         K unsat	1.4 - 1.5										
1.7 - 1.8         1.8 - 1.9         1.9 - 2         Depth       COLE         Gravimetric/Volumetric Water Contents       K sat         K unsat	1.5 - 1.6										
1.8 - 1.9         1.9 - 2         Depth       COLE         Gravimetric/Volumetric Water Contents       K sat         K unsat	1.6 - 1.7										
1.9 - 2 Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
	1.9 - 2										
	<b>D</b>	0015		-							K
	Depth	COLE	Sat.							sat	r unsat

m	Sat.	0.05 Bar	0.5 Bar /g - m3/m3	5 Bar	15 Bar	mm/h	mm/h
0 - 0.1					0.25B		

Project Name: Project Code: Agency Name:	CAN CAN Site ID: CP112 CSIRO Division of Soils (NSW)	(
0.1 - 0.2		
0.2 - 0.3		
0.3 - 0.4		
0.4 - 0.5		
0.5 - 0.6		
0.6 - 0.7		
0.7 - 0.8		
0.8 - 0.9		
0.9 - 1		
1 - 1.1		
1.1 - 1.2		
1.2 - 1.3		
1.3 - 1.4		
1.4 - 1.5		
1.5 - 1.6		
1.6 - 1.7		
1.7 - 1.8		
18-10		

1.8 - 1.9 1.9 - 2 Observation ID: 1

Project Name:	CAN		
Project Code:	CAN	Site ID:	CP112
Agency Name:	CSIRO Divi	sion of Soils (N	ISW)

## Observation ID: 1

## Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
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
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate