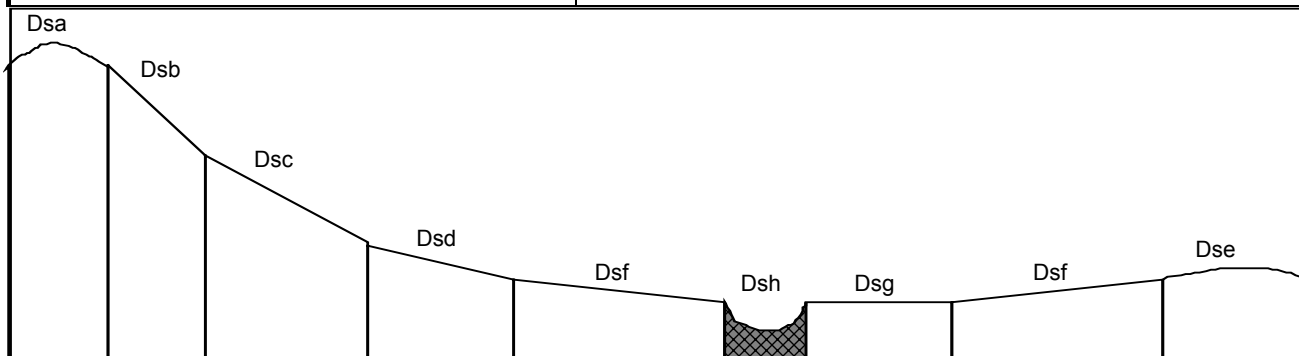


<b>MAP UNIT SYMBOL : Dsh</b>	<b>MAP UNIT : Devonian sediments, drainage depression.</b>
Area : 1,301 ha	



### A. GENERAL DESCRIPTION :

Drainage lines or depressions within the sedimentary steep, rolling and undulating hills and undulating low hills. The width of these drainage lines ranges between 5m and 70m and the soils are variable. The dominant soil type is a yellow duplex soil. Fine sandy loams, including a bleached horizon, overlie a heavily mottled medium clay. Occasionally the profiles may be gradational in nature with fine sandy clay loam subsoils. The soils in this unit are generally low in nutrients in the top soil and can have moderate to high salt contents in the subsoil. This map unit is highly susceptible to gully erosion, wind erosion and salting.

### SITE CHARACTERISTICS :

<b>Parent Material Age:</b>	Devonian	<b>Depth to Seas. Watertable:</b>	1.0-2.0m
<b>Parent Material Lithology:</b>	Sedimentary	<b>Flooding Risk:</b>	Moderate
<b>Landform Pattern:</b>	Steep/rolling/undulating hills/undulating low hills	<b>Drainage:</b>	Imperfectly drained
<b>Landform Element:</b>	Drainage depression	<b>Rock Outcrop:</b>	0%
<b>Slope a) common:</b>	3%	<b>Depth to Hard Rock:</b>	>1.8m
<b>Slope b) range:</b>	0-10%	<b>Present Land Use:</b>	Forest/ grazing
<b>Potential Recharge to Groundwater:</b>	Low		
<b>Major Vegetation Species:</b>	Red Gum, Grey Box, Silver Wattle		

### LAND DEGRADATION :

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet / rill	gully				
<b>Susceptibility</b>	Low	High	High	Very low	High	High
<b>Incidence</b>	Low	High	Low	Very low	Moderate	Not available

### B. SOIL PROFILE

#### PROFILE DESCRIPTION

<b>A1</b>	0-35mm	Dark brown (10YR4/3) fine sandy loam, moderate cast structure, peds less than 2mm, moderately weak consistence, pH 4.2. Clear transition to:
<b>A21</b>	35-185mm	Dark greyish brown (10YR4/2) fine sandy loam, bleached when dry, apedal, earthy fabric, moderately firm consistence, a few iron nodules, pH 3.9. Gradual transition to:
<b>A22</b>	185-385mm	Light yellowish brown (10YR6/4) fine sandy loam, bleached (10YR8/2) when dry, a few medium sized faint brown mottles, apedal, earthy fabric, very firm consistence, a few iron nodules, pH 3.9. Clear transition to:
<b>B21</b>	385-590mm	Brown (10YR5/3) medium clay, abundant medium sized distinct red and pale mottles, moderate subangular blocky structure, peds 10-20mm, rough fabric, very strong consistence, pH 4.1. Gradual transition to:

<b>B22</b>	590-930mm	Dark grey (10YR4/1) light medium clay, many medium sized distinct orange and pale mottles, moderate prismatic structure, peds 20-50mm, smooth fabric, very strong consistence, common iron and manganese nodules, pH 4.2. Diffuse transition to:
<b>B23</b>	930-1670mm	Greyish brown (10YR5/2) silty clay, many medium sized distinct orange mottles, weak prismatic structure, peds 10-20mm, rough fabric, pH 6.5. Gradual transition to:
<b>B3</b>	1670-1870 <sup>+</sup> mm	Grey (10YR5/1) fine sandy clay loam, many medium sized pale orange and yellow mottles, weak subangular blocky structure, peds 20-50mm, rough fabric, pH 7.1.

#### CLASSIFICATION

<b>Factual Key (Northcote):</b>	Dy3.42 (major)
<b>Australian Soil Classification:</b>	Mottled-Subnatric, Eutrophic, Brown Sodosol; thin, slightly gravelly, loamy/clayey, very deep.
<b>Unified Soil Group:</b>	CL

#### INTERPRETATION OF LABORATORY ANALYSIS

Horizon	pH (CaCl <sub>2</sub> )	%Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
<b>A1</b>	4.2**	2.1	VL	VL	D	S	T	H	L
<b>A21</b>	3.9**	7.1	VL	VL	D	S	T	M	L
<b>A22</b>	4.1**	10.9	VL	VL	D	D	T	L	M
<b>B21</b>	4.2**	6.5	VL	L	D	D	T	L	M
<b>B22</b>	5.9	14.2	VL	M	D	D	S	L	H
<b>B23</b>	6.5	3.2	M	M	D	D	S	VL	VH
<b>B3</b>	7.1	2.2	M	M	D	D	S	VL	H

VL : Very low    L : Low    M : Moderate    H : High    VH : Very High    D : Deficient    S : Satisfactory  
T : Toxic    \* see appendix D for analytical results    \*\* : Strongly acidic    N.A. : Not Available

#### SOIL PROFILE CHARACTERISTICS:

<b>Permeability:</b>	Slow (average 19mm/day, range 10-45 mm/day)
<b>Available Water Capacity:</b>	Very high (290 mmH <sub>2</sub> O)
<b>Linear Shrinkage (B horizon):</b>	Low (9.5%)

### C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
<b>Agriculture</b>	C <sub>3</sub> T <sub>2</sub> S <sub>4</sub>	Shallow depth to seasonal watertable, highly susceptible to gully and wind erosion
<b>Effluent Disposal (septic tanks)</b>	4	Imperfect drainage, low permeability
<b>Farm Dams</b>	4	Shallow depth to seasonal watertable, shallow depth to hard rock, highly dispersible subsoil
<b>Secondary Roads</b>	4	Imperfect drainage
<b>Rural Residential</b>	4	Effluent disposal, farm dams, secondary roads, building foundations
<b>Small Farms</b>	4	Agriculture, farm dams, secondary roads, buiding foundations