

## **4.2 Vulnerability of assets to salinity**

To highlight the key assets at risk of being affected by salinity, a vulnerability assessment was undertaken to assess the susceptibility of each asset to a hypothetical exposure to salinity. In this case, the vulnerability of each asset is defined by a combination of:

- the likelihood of the asset being degraded if exposed to a hypothetical salinity risk; and
- the consequence of the asset being degraded by salinity.

A vulnerability score was assigned to each of the assets according to the matrix shown in Table 2.

■ **Table 2: Likelihood versus consequence matrix to determine vulnerability of assets to salinity**

<b>Vulnerability Index</b>	<b>Likelihood (of degradation to hypothetical salinity condition)</b>			
		<b>Low</b>	<b>Moderate</b>	<b>High</b>
<b>Consequence (if impacted by salinity)</b>	<b>Low</b>	1	2	4
	<b>Moderate</b>	3	5	7
	<b>Severe</b>	6	8	9

Assets that received a score of 7, 8 or 9 were determined to be the most vulnerable assets. The averaged vulnerability score combined with facilitated discussion lead to the original asset list being reduced to a smaller number of priority assets that were considered to be vulnerable to salinity, as shown in Table 3.

■ **Table 3: Assets considered most vulnerable to salinity**

<b>Asset class (from Regional Catchment Strategy)</b>	<b>Asset</b>
Production	Agriculture (both dryland and irrigated)
Production	Forestry
People and Communities	Communities
Biodiversity	Native Vegetation
Biodiversity	Reserves (parkland)
Infrastructure	Urban and rural infrastructure
Water	Groundwater
Water	Surface water (including lakes and rivers)
Water/Biodiversity	Gippsland Lakes
Water/Biodiversity	Wetlands

The next step was to determine where these vulnerable assets are exposed to salinity, which is described in Section 4.3.