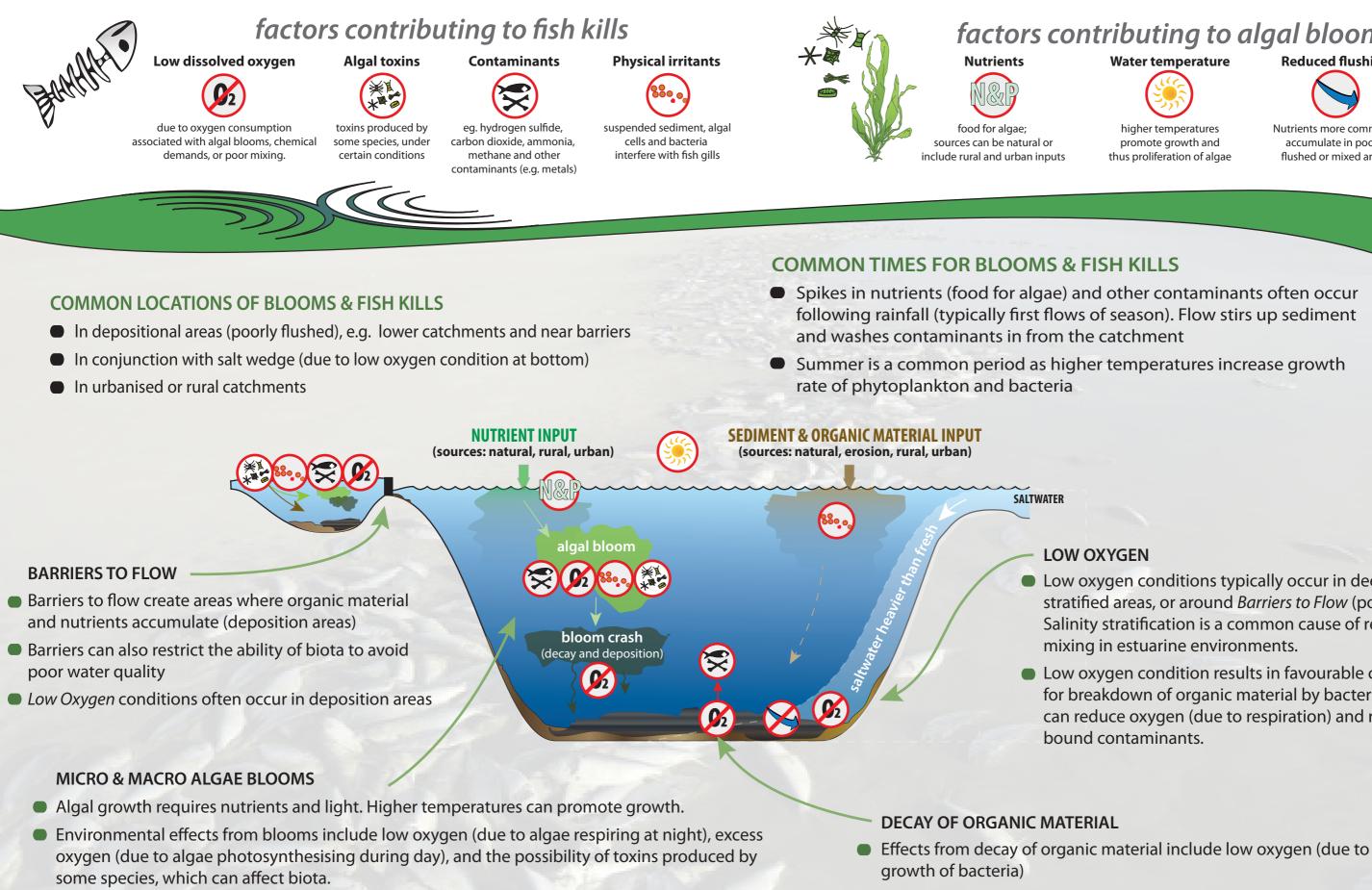
## **Fish Kills & Algal Blooms**



- Social effects include odour and aesthetics
- Excessive growth of aquatic macrophytes can also occur; having similar causes but minor negative environmental effects.

Sources of organic material include vegetation, eroded soils and and large inputs following crash of Micro & Macro Algal Blooms

## factors contributing to algal blooms



higher temperatures promote growth and thus proliferation of algae **Reduced flushing** 



Nutrients more commonly accumulate in poorly flushed or mixed areas

Low oxygen conditions typically occur in deeper or stratified areas, or around *Barriers to Flow* (poorly mixed). Salinity stratification is a common cause of reduced mixing in estuarine environments.

Low oxygen condition results in favourable conditions for breakdown of organic material by bacteria, which can reduce oxygen (due to respiration) and release

animal wastes from the catchment (natural, rural and urban sources)