

The Swan and Canning River systems, and many wetlands, are suffering from regular, and sometimes toxic, algal blooms. These blooms occur due to excessive inputs of nutrients, particularly phosphorus and nitrogen, combined with low water flows and warm temperatures. Local authorities are responsible for nutrient use and management on turfed areas and in reserves, in drainage systems and in local planning decisions and thus have the opportunity to lead the community by setting examples in best practice.

Each year Local Government Authorities (LGAs) in Perth are surveyed on their nutrient practices by the Phosphorus Awareness Project of the South East Regional Centre for Urban Landcare (SERCUL). The survey is broken up into different sections including nutrient monitoring, fertiliser applications, nutrient management,

nutrient education, water quality monitoring and development control. The results from the questions asked in the survey have been used to provide a Score Card for each LGA that responded and clearly show how the LGA is performing and where and how improvements can be made. LGAs should also refer to the Annual Nutrient Survey for Local Government Authorities Results 2021 report (www.sercul.org.au/fertilisewise) for further recommendations on how to implement nutrient Best Management Practices (BMPs).

Please note that not all of the questions asked in the survey were used to determine the overall best management practice score. Any additional information about nutrient practices provided by an LGA is summarised at the end of this scorecard.

BEST MANAGEMENT PRACTICE SCORE 2021

Overall BMP: 73% ABOVE AVERAGE

The City of Melville has been above average in implementing Best Management Practices in 2020/21. Further improvements can be made in the areas of nutrient monitoring, fertiliser applications, nutrient management, water quality monitoring and development control.

RESPONSE P	<u>(EY:</u>			
BMP has b	een achieved E	BMP has NOT been achieved	Not Applicable	Response not assessed
BEST MANA	GEMENT PRACTIO	CE (BMP) KEY:		
Excelling	Above Average	Average Below A	verage Unsatisfac	tory

NUTRIENT MONITORING

QUESTION	RESPONSE	SECTION BMP	
Are regular soil tests &/or leaf tissue analyses conducted in grassed and turf areas?	YES	YES	
Is analysis conducted by a lab affiliated with ASPAC?		FXCFLLING	
Is plant available phosphorus in the soil measured using an appropriate test?	YES	EXCELLING	
Are rates of phosphorus determined by soil testing and Phosphorus Retention Index (PRI) results?	YES		

The City conducts soil tests, moisture testing and leaf tissue analysis at sports fields, golf courses and irrigated parks and it is recommended that this practice continue. It does not conduct any testing or analysis of foreshore and dry grass areas, despite indicating that foreshore areas are fertilised. It is recommended that before applying fertiliser to any area, but particularly foreshore areas, the City conduct soil tests and leaf tissue analysis and if they irrigate the area, moisture testing as well.

FERTILISER APPLICATIONS

QUESTION	RESPONSE	SECTION BMP
Are there foreshore reserves and parks in the LGA?	YES	
Is fertiliser added to foreshore reserves and parks?	YES	AVERAGE
Does the fertiliser contain phosphorus?	NO	7.17.2.17.10.2
Is it a controlled release, low water soluble fertiliser?	YES	

A buffer zone immediately adjacent to waterbodies should be established in which no fertilising takes place. The width of the buffer zone should be determined by factors such as the site condition and function, however, if possible, it should be at least 50m. Outside the buffer zone, if fertiliser is to be applied it should be a controlled release, phosphorus free, low water soluble fertiliser that is applied according to soil testing and leaf tissue analysis. If the area is irrigated moisture testing should also be undertaken. Analysis of the fertiliser applied to active and passive turf indicates that single application rates of nitrogen are above the 40kg/ha that is recommended. It is recommended that the City ensure that each single application of nitrogen be below this amount.



NUTRIENT MANAGEMENT

QUESTION	RESPONSE	SECTION BMP
Are structural BMPs in place to reduce nutrients entering waterbodies?	YES	
Are non-structural measures in place to prevent nutrients from grass clippings entering waterbodies via stormwater drains?	YES	
Are there deciduous trees in parks and streetscapes?	YES	
Are non-structural measures in place to prevent nutrients from deciduous leaves entering waterbodies via stormwater drains?	YES	ABOVE AVERAGE
Are there non-structural measures in place to prevent nutrients from sediment entering waterbodies via stormwater drains?	YES	7.17 E. O. TOL
Is a Nutrient and Irrigation Management Plan (NIMP) implemented for streetscapes?	NO	
Is there a policy to use local native plants as the first choice in public (LGA) and private (developers) landscaping?	NO	

It is recommended that no further deciduous trees be planted on road verges or near waterbodies. A NIMP should be implemented for streetscapes and a policy to use local native plants as the first choice in landscaping enacted.

WATER QUALITY MONITORING

QUESTION	RESPONSE	SECTION BMP	
Are wetlands regularly monitored for nutrient levels?	YES	DEL OW	
Are stormwater drains regularly monitored for nutrient levels?		BELOW AVERAGE	
Are compensating basins regularly monitored for nutrient levels?	NO		

The City monitors nutrient levels in wetlands and reports the results to the local community. It is recommended that the City implement a monitoring program for stormwater drains and compensating basins and report the results to the local community. SERCULs Water Quality Monitoring Team can assist LGAs with undertaking this work and can be contacted on 9458 5664.

DEVELOPMENT CONTROL

QUESTION	RESPONSE	SECTION BMP
Are there provisions in the Town Planning Scheme or Planning Policies to enforce environmental conditions on development?	YES	
Do you impose conditions on development which include Nutrient and Irrigation Management Plans (NIMPs)?	NO	ABOVE AVERAGE
Do you have mechanisms in place to regulate sediment management?	YES	

It is recommended that the City impose conditions requiring NIMPs on developments, monitors these for compliance and prosecutes developers that are not complying.

NUTRIENT EDUCATION

QUESTION	RESPONSE	SECTION BMP
Are dog poo bins and bags provided in parks and foreshore reserves?	YES	
Are measures taken to educate the public about not feeding bread to waterbirds in foreshore reserves and parks?	YES	EXCELLING
Are ratepayers provided with advice on best practice in fertiliser management according to soil type?	YES	

It is recommended that the City continue to implement their current practices.

